PIONEER®
The Art of Entertainment

LaserDisc
NTSC
LASER DISC
COMPACT disc DIGITAL AUDIO

CD CDV LD PLAYER
CD CDV LD 鐳射碟影機
CD CDV LD 镭射碟影机

Operating Instructions
使用說明書
使用说明书

CLD-D790/CLD-D590/CLD-D390

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

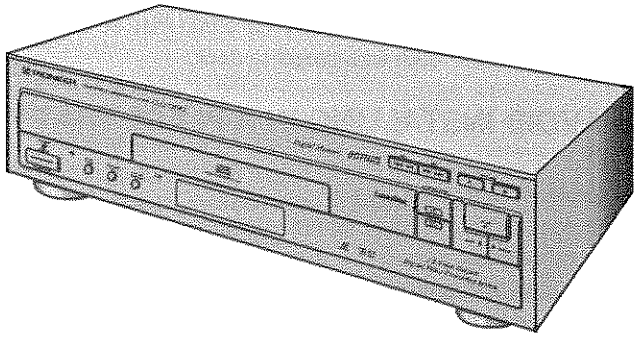
- This player is not suitable for commercial use.

承蒙惠顧本先鋒產品，甚表感謝。
請仔細閱讀使用說明書以便正確操作。當您閱讀完畢後請好好保存以備日後參考。
在某些國家或地區，插頭及插座的形狀可能和所表示的形狀不同。然而連接及操作的方法是一樣。

- 本產品無法供業務使用。

承蒙惠顾本先锋产品，甚表感谢。
请仔细阅读使用说明书以便正确操作。当您阅读完毕后请好好保存以备日后参考。
在某些国家或地区，插头及插座的形状可能和所表示的形状不同。然而连接及操作的方法是一样。

- 本产品无法供业务使用。



- The above illustration shows CLD-790.
- 上圖所示的機型為 CLD-790。
- 上图所示的机型为 CLD-790。

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IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

FOR PROPER AND LONG USE

■ DO NOT MOVE THE UNIT DURING PLAYBACK

During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc.

■ WHEN MOVING THE UNIT

When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc table to its original position in the player. Then, switch the power OFF. Check that the "–OFF–" indication on the display goes off, then disconnect the power cable.

■ INSTALLATION PLACE

- Select a stable place to the side of a TV set or stereo system to be connected to the unit.
- When using the unit with a stereo system, install the speakers a little bit away from the TV.
- Do NOT install the unit on top of a TV or color monitor. Install the unit away from equipment that may be affected by magnetism, such as a cassette deck.

■ AVOID INSTALLING IN A PLACE THAT IS:

- Exposed to direct sunlight
- Exposed to humidity or where ventilation is poor
- Extremely hot or cold
- Exposed to vibration
- Exposed to dust
- Exposed to oily smoke, steam or heat (for example, a kitchen)

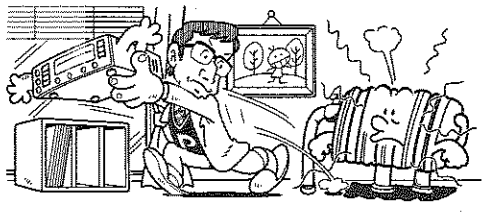
■ DO NOT PLACE A HEAVY OBJECT ON TOP

Do NOT place a heavy object (TV set, amplifier, etc.) on the unit.

■ AVOID HEAT

Do NOT place the unit on equipment generating heat, such as an amplifier.

When installing the unit in a rack, place it on the lowest shelf possible (however, not where it is exposed to dust) and separated from the amplifier to avoid the heat generated by the amplifier or other audio equipment.



■ CAUTION: WHEN PLACING THE UNIT IN A STEREO RACK WITH GLASS DOORS

Be sure there is ample space between the unit and the glass doors when opening the disc table using the remote control.

If the disc table opens against strong resistance, **such as a closed glass door**, damage to the unit may result.

■ CONDENSATION

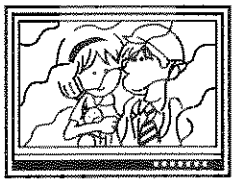
Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.

To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

■ SWITCH THE POWER OFF WHENEVER NOT USING THE UNIT

Depending on the strength of the TV broadcast signal, having the TV set on while the power of the unit is ON may produce stripes on the TV screen. However, this is not a malfunction of this unit or the TV set. In such a case, switch the power of the unit OFF.



THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

[FOR ROUND 2-PIN AC PLUG MODEL]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appear on your player.

Location: On the rear panel of the player

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

How to read this manual

The model shown in the illustrations accompanying the operating procedures is the CLD-D790. The shape of remote control buttons are variable between models, but their operating methods are identical.

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FEATURES

1. CD CDV LD player

This unit is a CD CDV LD player designed to play back discs ranging from 8-cm audio discs (CDs) to 30-cm video discs (LDs) without using an adapter.

2. Equipped with two disc tables p. 14 p. 15

This unit has an LD disc table for playback of LDs and CDs and a CD disc table for CDs. Playback of CDs can be as speedy as with conventional CD players.

3. Continue Play function (LAST MEMORY) p. 17

This unit has the Continue Play function to play back LDs from the point where playback was stopped. Playback can also be continued slightly before the point in a movie, etc. where playback was last interrupted.

4. All-side playback p. 14

This unit is capable of playing the two sides of a double-sided disc continuously, without the necessity of turning the disc upside down. With the quick-turn function shortening the time till the start of playback, the time of side change from A to B or B to A during continuous playback can be shortened.

5. AC-3 RF output terminal p. 9

This unit is compatible with Dolby* DOLBY SURROUND . You can enjoy the 5.1 CH digital surround audio by connecting this unit with an amplifier or surround processor equipped with the AC-3 RF input terminal and playing LD software and Dolby surround AC-3 compatibility.

* Dolby, AC-3 and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

6. Ample Scan/Search functions p. 23 p. 24

This unit has three types of scan functions convenient for quickly checking the content of the disc. Besides Normal Scan, the unit has, Intro Scan (plays back the first 8 seconds of each chapter/track) and Highlight Scan (plays back the 8-second portion starting 1 minute after the beginning of each track).
The search functions, convenient for specifying the portion to be played back, include Direct Search (to be specified by Chapter/Track number), Normal Search, Frame Search (to be specified by Frame number), and Time Search (to be specified by Time number).

7. Repeat functions p. 25

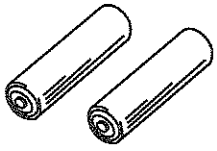
This unit provides various repeat functions available for CD and LD, including the repeat playback by returning to the designated position, the A-B sectional repeat playback for repeating the designated section, the program repeat playback for repeating a program and the random repeat playback, as well as the LD-only repeat functions including the all-side repeat playback for repeating the two sides of LD disc and the 1-chapter repeat playback for repeating a single LD chapter, and the CD-only repeat function of the 1-track repeat playback for repeating a single CD track.

PICTURE CONTROL (CLD-D790 only) p. 21

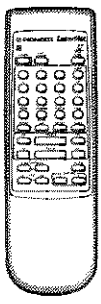
The sharpness of the picture quality can be selected from among 3 modes: Normal, Sharp 1, and sharp 2.

INVENTORY OF THE INCLUDED ACCESSORIES

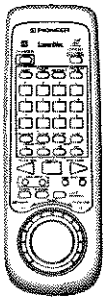
Dry cell batteries x 2
(CLD-D390: AA/R6P)
(CLD-D790/CLD-D590: AAA/R03)



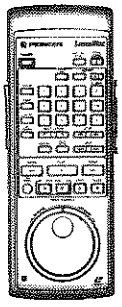
Remote control unit



CLD-D390

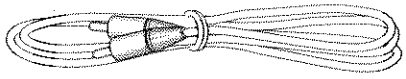


CLD-D590

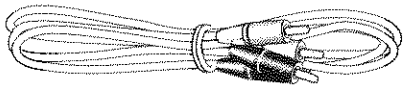


CLD-D790

Video cord

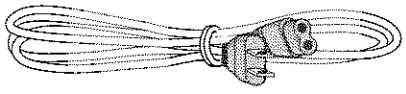


Audio cord

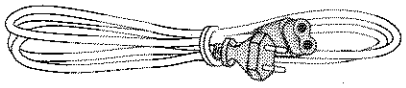


Power cord

- Flat blade 2-pin AC plug model



- Round 2-pin AC plug model



Operating instructions

Warranty card

DISC TYPES COMPATIBLE WITH THIS UNIT

This unit is a CD CDV LD player.

- The symbol indicated below is on the label or jacket of the discs. This unit can play back the following seven types of discs without using an adapter.

Compatible disc types and their symbol	Disc size	Maximum playback time on the playback side	
CD COMPACT disc DIGITAL AUDIO	**CD** 12 cm	74 min. on a single side	
	CD Single 8 cm	20 min. on a single side	
CDV CD VIDEO	**CDV** 12 cm	20 min. on a single side with digital audio, 5 min. on a single side with digital audio and video	
VSD VIDEO SINGLE DISC	**VSD** 12 cm	5 min. on a single side with digital audio and video	
LD LASERDISC	**LD** 30 cm	CAV	1 hour on a double-sided disc
		CLV	2 hours on a double-sided disc
LD LaserVision	**LD** 20 cm	CAV	28 min. on a double-sided disc
		CLV	40 min. on a double-sided disc
LD CD VIDEO	**LD Single** 20 cm	CAV	14 min. on a single-sided disc
		CLV	20 min. on a single-sided disc

Discs other than the above cannot be played back with this unit.

Some discs that cannot be played with this unit: Video CDs
CD-ROMs
LD-ROMs
Hi-Vision LDs

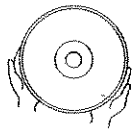
Caution

VIDEO CD [COMPACT disc DIGITAL VIDEO **or** VIDEO CD] **cannot be played with this player.**

The Video CD is a disc holding up to 74 minutes of digital video and audio signals, when recorded in the MPEG format.

This unit conforms to the NTSC system. Discs of other systems (PAL or SECAM) cannot be used with this unit.

Handling the discs

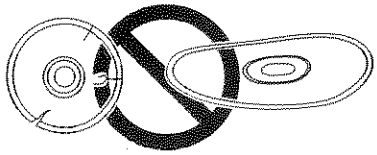
	LD	CD/CDV
Holding with both hands Hold both sides of the disc.		———
Holding with one hand Hold the edge of the central hole and the outside of the disc with your fingers.		

Caution

Do NOT paste on paper or similar material.
Do NOT touch the disc surface.

Never use a cracked or warped disc.

Do NOT use discs that are cracked, deformed, or repaired with adhesive. Doing so may cause an accident.
Do NOT use record spray, electrostatic protector or similar chemicals. Doing so will cause cracking.



Storage

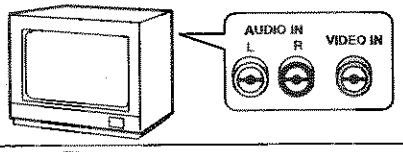
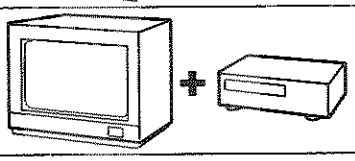
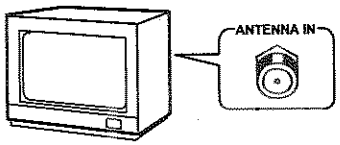
Be sure to remove the disc from the player after use. Place the disc into its jacket or case and store it vertically. Storing discs in a slanted position or stacking them may cause the discs to warp. Do NOT place discs in places exposed to direct sunlight, high temperatures or humidity.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CONNECTION METHODS

Select the proper connection method according to the TV (VCR) used with this unit.

	Your video equipment	Reference figure	Comment
TV with video input jack		**Fig. A**	If your AV TV has an idle video input, this method is the simplest.
TV is connected to VCR		**Fig. B**	If your TV has some video input jacks and any of them is idle, the method shown in Fig. A is more convenient.
TV without video input jack (CLD-D590 and CLD-D390 only)		**Fig. C**	This method is used only when your TV does not have a video input jack. The use of an optional RF modulato is required.

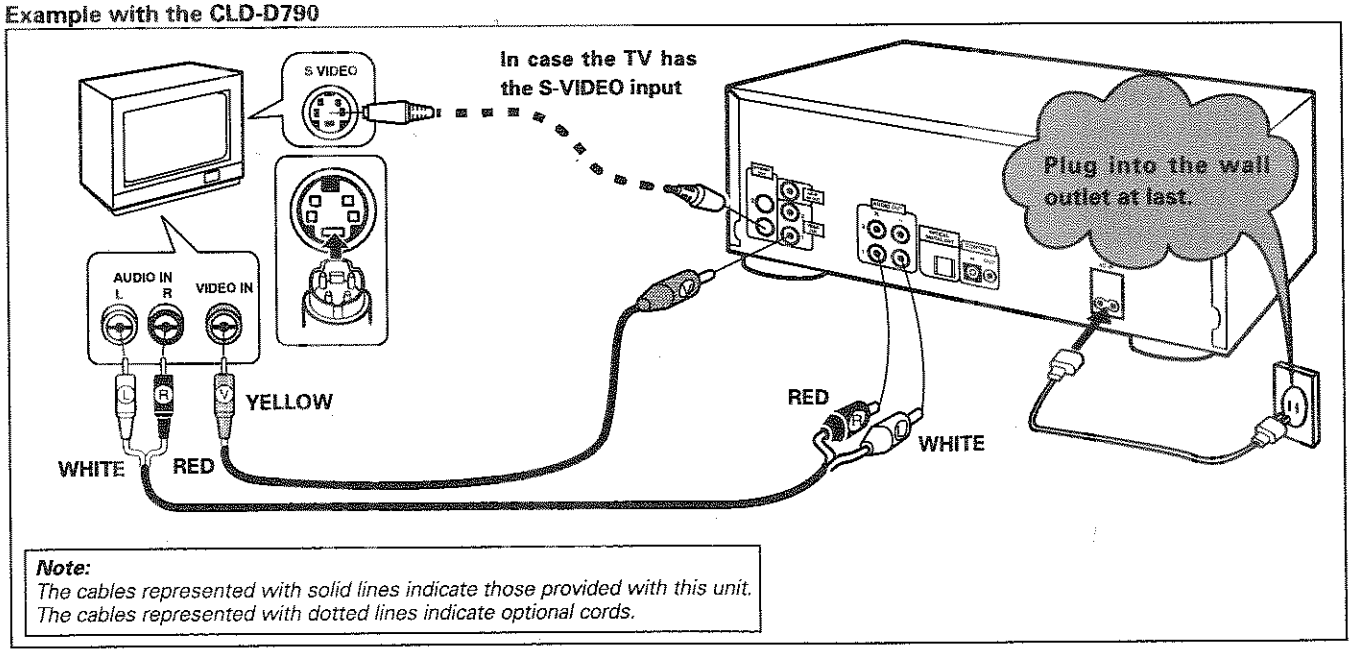
This unit can also be connected to a stereo amplifier, AV amplifier, an amplifier with the AC-3 RF input, etc. For the connection to such equipment, please refer to Fig. D. Connect the CLD-D790 as shown in Fig.B if the TV input terminals are already connected to a VCR (etc.), or the TV has only antenna inputs.

⚠ **Do not use other power cord than provided, or malfunction may result.**

A CONNECTION WITH AN AV TV EQUIPPED WITH AUDIO/VIDEO INPUT JACKS

- Connect the plugs and jacks so that their colors (white, red, yellow) match to prevent mistake.
- When the TV has several video input jacks, select the proper input (VIDEO 1, VIDEO 2, etc.).
- Also read the operating instructions of your TV (video monitor or VCR).

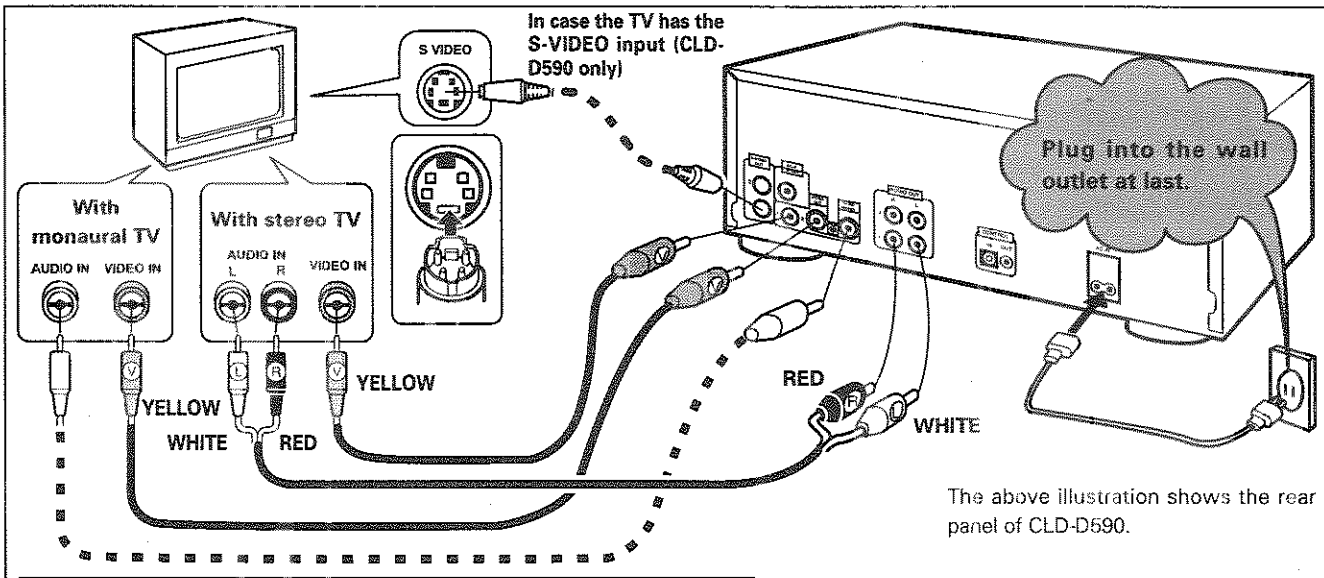
Example with the CLD-D790



Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.

A CONNECTION WITH AN AV TV EQUIPPED WITH AUDIO/VIDEO INPUT JACKS

Example with the CLD-D590 and CLD-D390



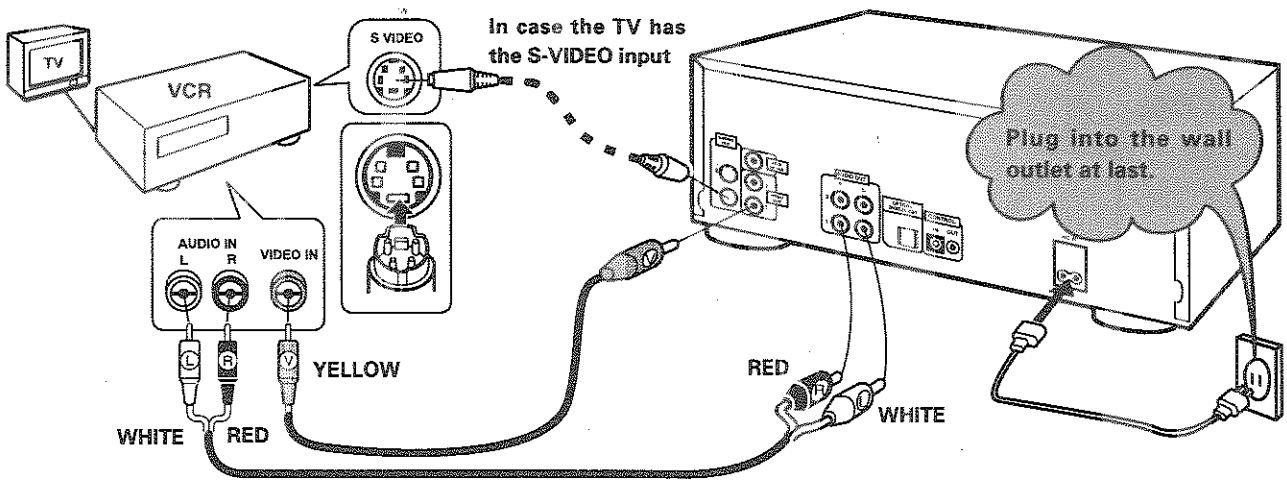
The above illustration shows the rear panel of CLD-D590.

Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.

B CONNECTION WITH A VCR

- Connect the plugs and jacks so that their colors (white, red, yellow) match to prevent mistake.
- To view LD playback with the connection example shown below, switch the VCR ON, set the VCR input to "AUX INPUT", and operate the TV in the same way as when you usually watch a video cassette.

Example with the CLD-D790

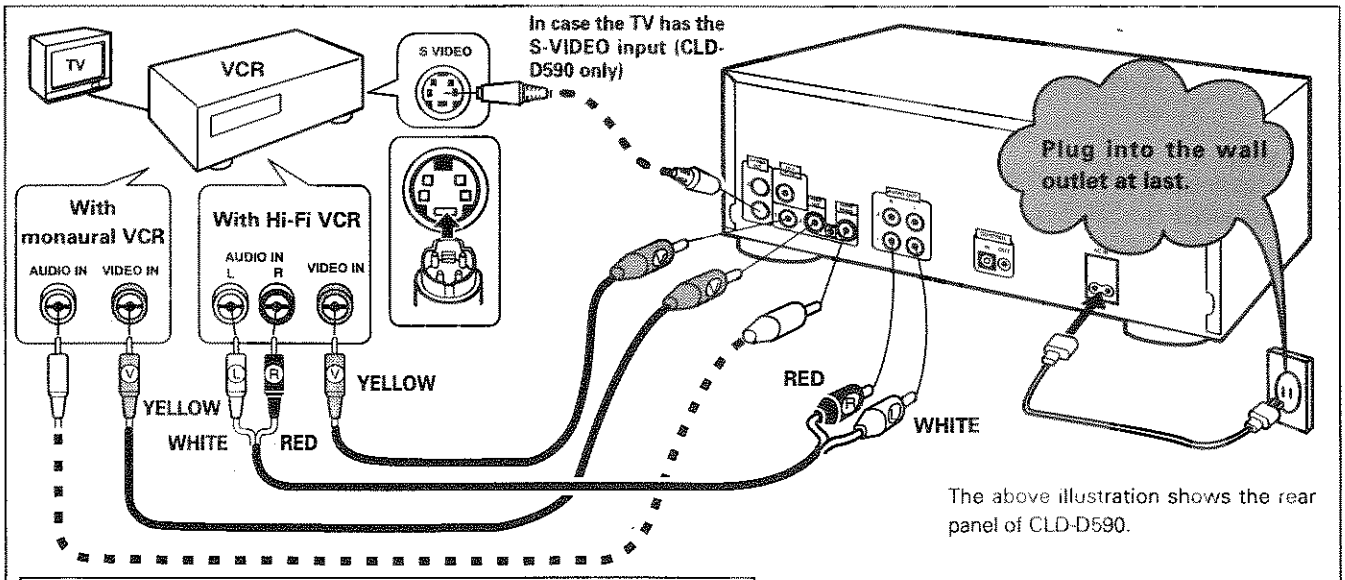


Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.

B CONNECTION WITH A VCR

- Connect the plugs and jacks so that their colors (white, red, yellow) match to prevent mistake.
- To view LD playback with the connection example shown below, switch the VCR ON, set the VCR input to "AUX INPUT", and operate the TV in the same way as when you usually watch a video cassette.

Example with the CLD-D590 and CLD-D390

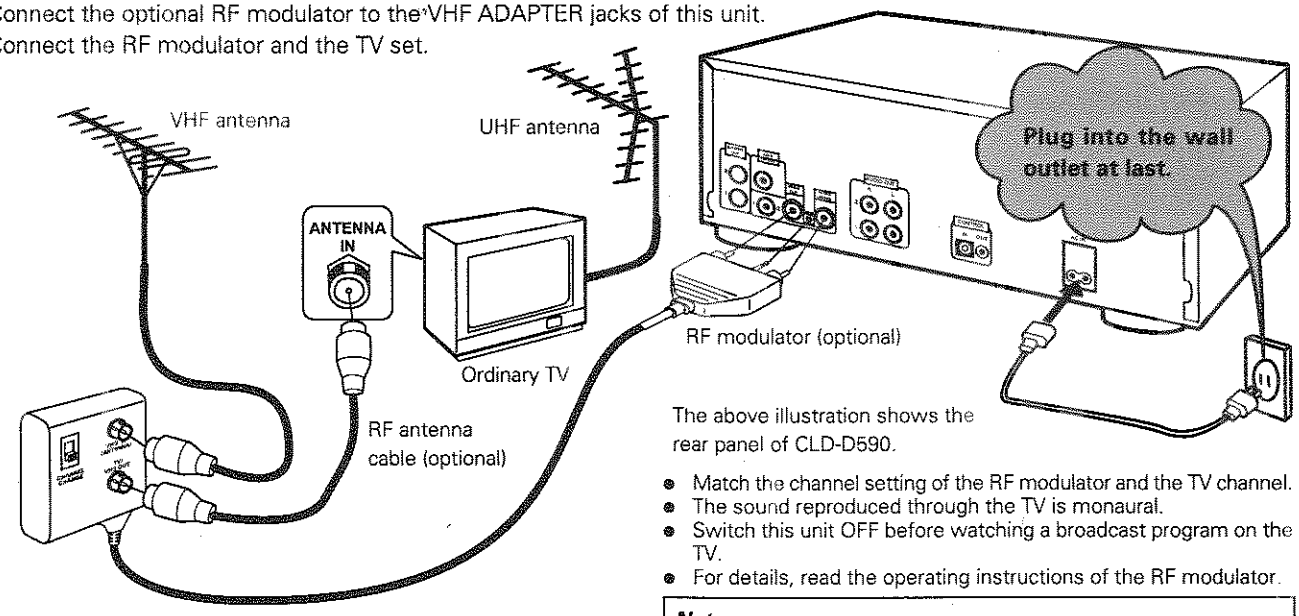


The above illustration shows the rear panel of CLD-D590.

Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.

C CONNECTION WITH A TV EQUIPPED ONLY WITH ANTENNA TERMINALS (CLD-D590/CLD-D390 only)

1. Connect the optional RF modulator to the VHF ADAPTER jacks of this unit.
2. Connect the RF modulator and the TV set.



The above illustration shows the rear panel of CLD-D590.

- Match the channel setting of the RF modulator and the TV channel.
- The sound reproduced through the TV is monaural.
- Switch this unit OFF before watching a broadcast program on the TV.
- For details, read the operating instructions of the RF modulator.

Note:
With some TV sets, stripe noise may interfere with the screen during playing a disc. In this case, move the antenna cord more apart from the power cord until the noise disappears.

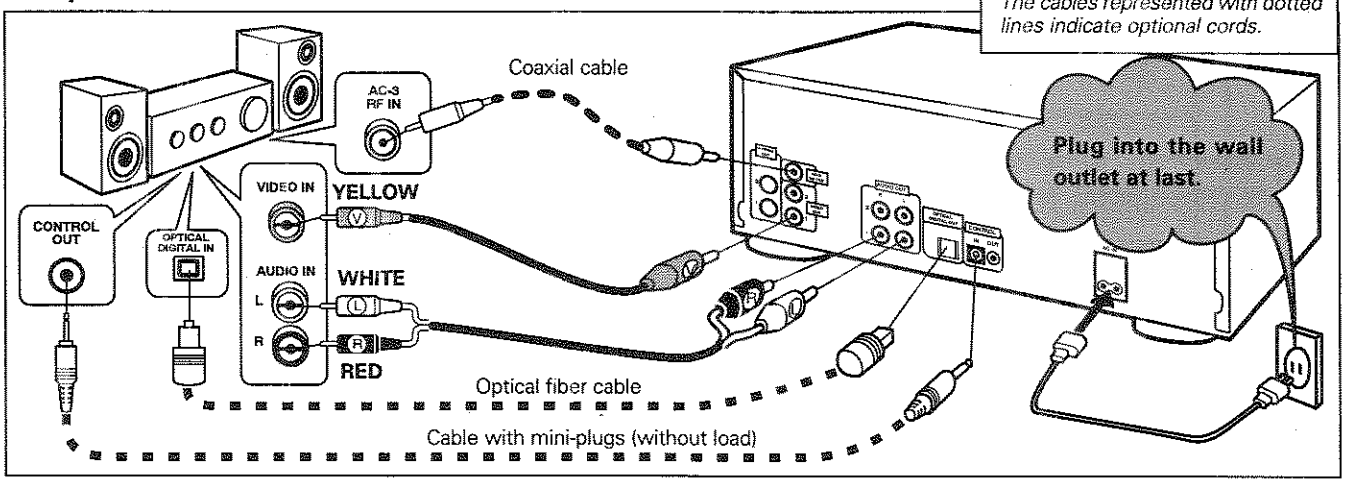
D CONNECTION FOR PLAYBACK WITH BETTER SOUND QUALITY

The audio of the disc can be played with an improved quality by connecting this unit to an AV amplifier or stereo amplifier.

- Connect the AUDIO OUT jacks of this unit to the AUDIO IN jacks of CD, LD or AUX of the amplifier. (Do not connect to the PHONO jacks.)
- Connect the VIDEO OUT jack of this unit to the VIDEO IN jack of the amplifier.
- Connect the CONTROL IN jack of this unit with the CONTROL OUT jack of the amplifier.

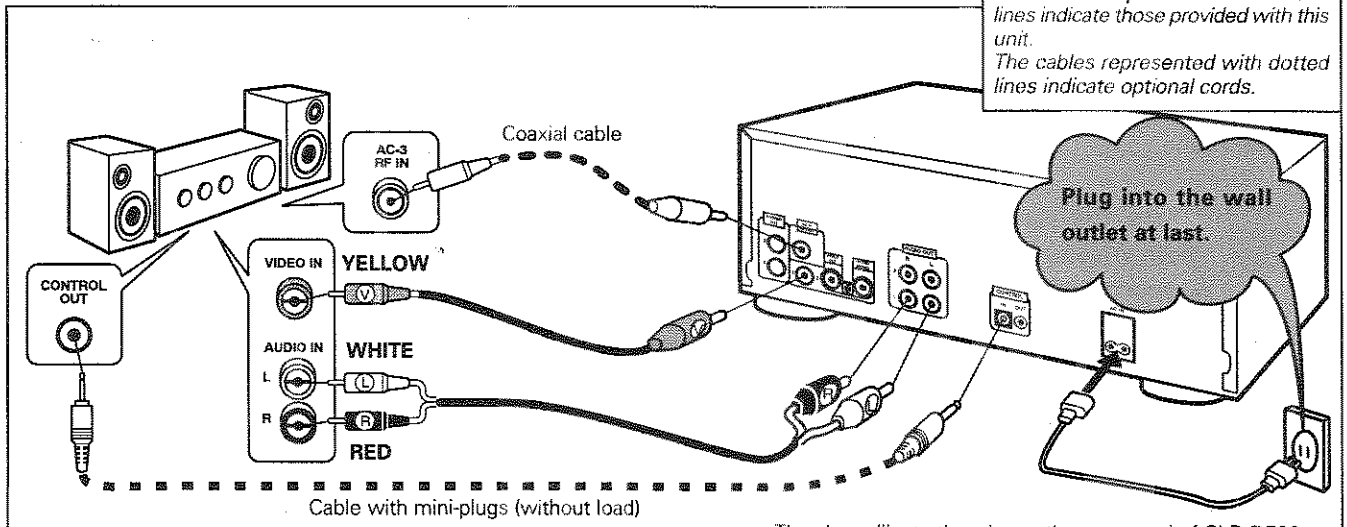
Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.

Example with the CLD-D790



Example with the CLD-D590 and CLD-D390

Note:
The cables represented with solid lines indicate those provided with this unit.
The cables represented with dotted lines indicate optional cords.



The above illustration shows the rear panel of CLD-D590.

● Connection with PIONEER component carrying the SR mark

By connecting the CONTROL IN jack of this unit with the CONTROL OUT jack of a component with SR mark through a cable with mini-plugs (without load) which is available in the market, this unit can be included in the system control.

- When the system control connection is made, it is not possible to directly remote control this unit by pointing the remote control unit to it.
- For details, read the operating instructions of the component connected with this unit.

AC-3 RF output jack

This output jack is compatible with the AC-3 (digital multi-audio format). Dolby AC-3 compatible LD software can be played by connecting this jack to an amplifier or surround processor equipped with the AC-3 RF input jack.

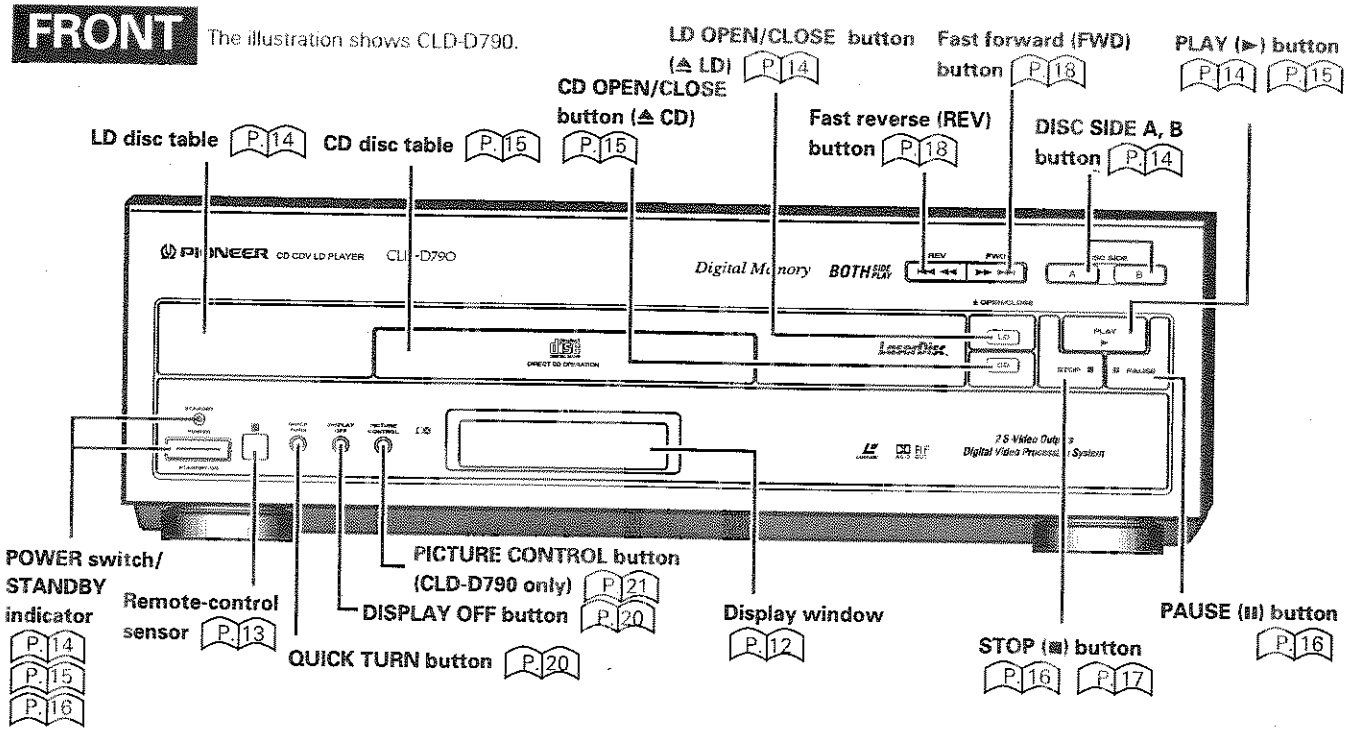
- The Dolby AC-3 effect cannot be obtained with LD software or AV amplifiers that are not Dolby AC-3 compatible.
- Do not connect this jack to an audio input jack of an ordinary stereo amplifier or AV amplifier.

NAMES AND FUNCTIONS

See the pages indicated after the names for further details.

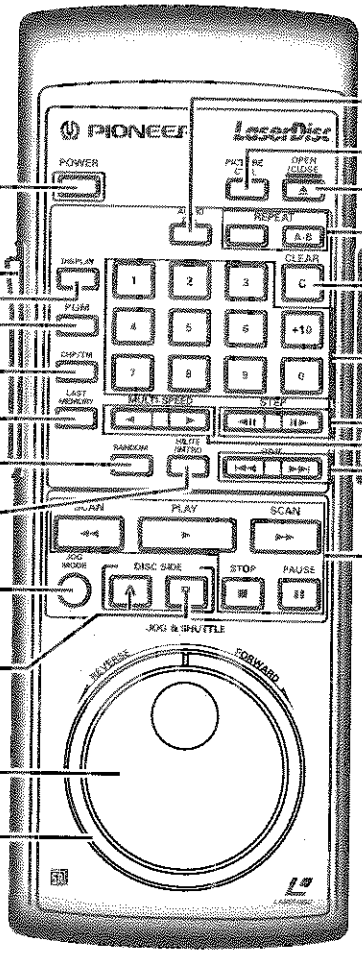
FRONT

The illustration shows CLD-D790.


LD OPEN/CLOSE button (≜ LD) P.14
Fast forward (FWD) button P.18
PLAY (►) button P.14 P.15
CD OPEN/CLOSE button (≜ CD) P.15
Fast reverse (REV) button P.18
DISC SIDE A, B button P.14
LD disc table P.14
CD disc table P.15
POWER switch/ STANDBY indicator P.14 P.15 P.16
Remote-control sensor P.13
PICTURE CONTROL button (CLD-D790 only) P.21
DISPLAY OFF button P.20
QUICK TURN button P.20
Display window P.12
STOP (■) button P.16 P.17
PAUSE (II) button P.16

REMOTE CONTROL UNIT

CLD-D790



POWER button P.14 P.15 P.16

LIGHTING button P.12

DISPLAY button P.32

Program (PGM) button P.26

Chapter/time (CHP/TM) button P.24

LAST MEMORY button P.17

RANDOM button P.28

HILITE/INTRO button P.23

JOG MODE button P.19

DISC SIDE A/B button P.14

JOG dial P.19

SHUTTLE ring P.19

AUDIO D/A button P.22

PICTURE CONTROL button P.21

OPEN/CLOSE button P.14 P.16

REPEAT button P.25

A-B REPEAT button P.25

CLEAR button P.25 P.26 P.27

Use to cancel the repeat mode, program mode, random playback or a number entered with the numeric buttons.

Numeric button P.15 P.24 P.26

STEP buttons P.30

MULTI-SPEED buttons P.30

SKIP buttons P.15 P.18

■: STOP button P.16 P.17

►: PLAY button P.14 P.15

II: PAUSE button P.16

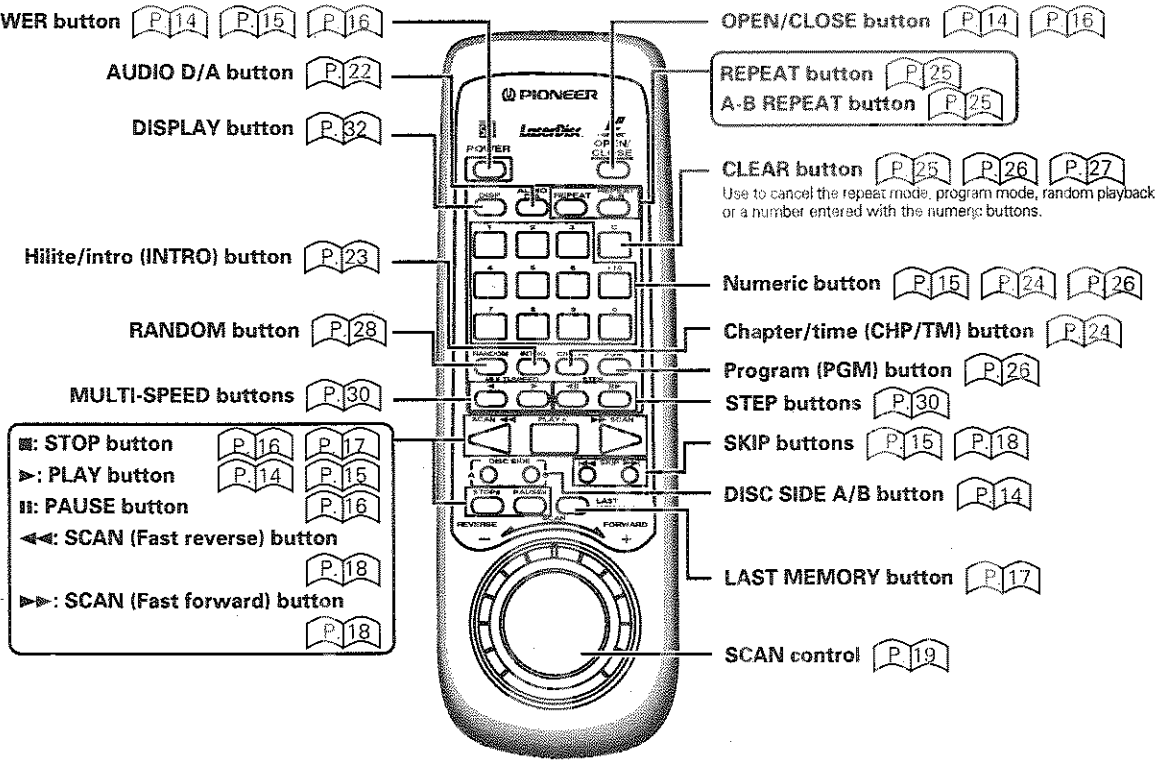
◄◄: SCAN (Fast reverse) button P.18

►►: SCAN (Fast forward) button P.18

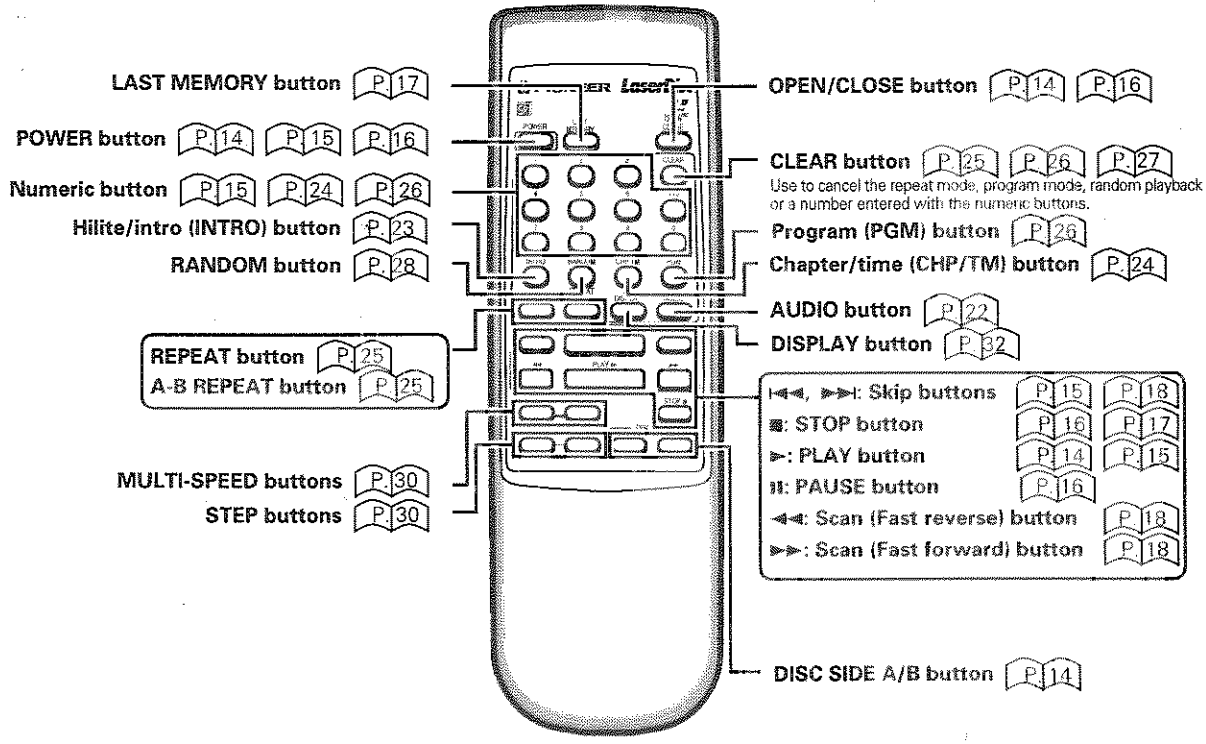
With some of the preset remote control units from PIONEER, the disc table may not be able to be opened by pressing the ■/≜ button in the LD operation section.

REMOTE CONTROL UNIT

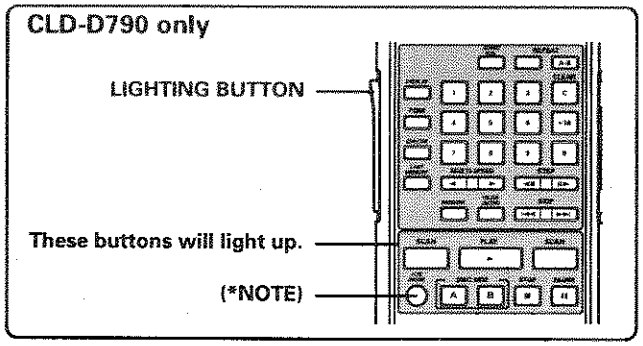
CLD-D590


POWER button P.14 P.15 P.16
AUDIO D/A button P.22
DISPLAY button P.32
Hilite/intro (INTRO) button P.23
RANDOM button P.28
MULTI-SPEED buttons P.30
■: STOP button P.16 P.17
►: PLAY button P.14 P.15
II: PAUSE button P.16
◄◄: SCAN (Fast reverse) button P.18
►►: SCAN (Fast forward) button P.18
OPEN/CLOSE button P.14 P.16
REPEAT button P.25
A-B REPEAT button P.25
CLEAR button P.25 P.26 P.27
Use to cancel the repeat mode, program mode, random playback or a number entered with the numeric buttons.
Numeric button P.15 P.24 P.26
Chapter/time (CHP/TM) button P.24
Program (PGM) button P.26
STEP buttons P.30
SKIP buttons P.15 P.18
DISC SIDE A/B button P.14
LAST MEMORY button P.17
SCAN control P.19

CLD-D390


LAST MEMORY button P.17
POWER button P.14 P.15 P.16
Numeric button P.15 P.24 P.26
Hilite/intro (INTRO) button P.23
RANDOM button P.28
REPEAT button P.25
A-B REPEAT button P.25
MULTI-SPEED buttons P.30
STEP buttons P.30
OPEN/CLOSE button P.14 P.16
CLEAR button P.25 P.26 P.27
Use to cancel the repeat mode, program mode, random playback or a number entered with the numeric buttons.
Program (PGM) button P.26
Chapter/time (CHP/TM) button P.24
AUDIO button P.22
DISPLAY button P.32
I◄◄, ►►I: Skip buttons P.15 P.18
■: STOP button P.16 P.17
►: PLAY button P.14 P.15
II: PAUSE button P.16
◄◄: Scan (Fast reverse) button P.18
►►: Scan (Fast forward) button P.18
DISC SIDE A/B button P.14

CLD-D790 only

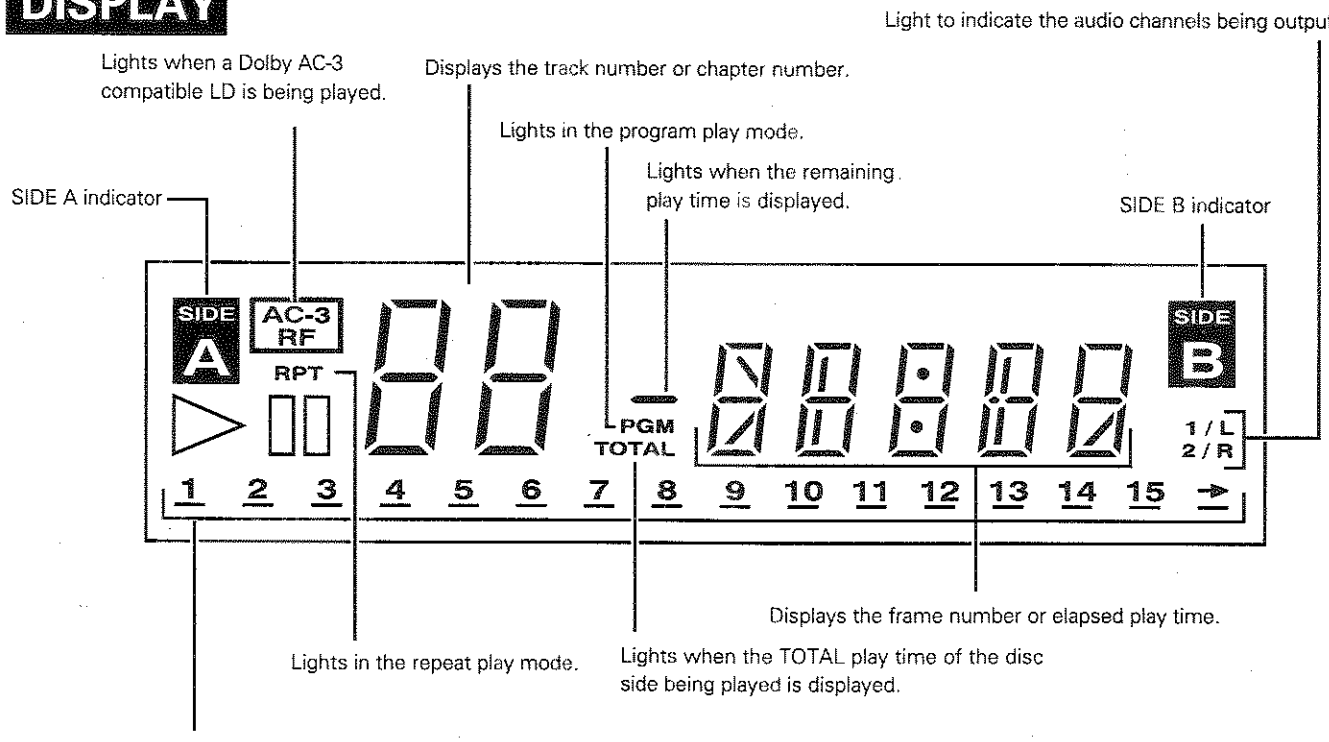


When the LIGHTING button is pressed, the buttons indicated in the illustration will light for about 3 seconds.
The light will become dim and the range of the remote control operation will become shorter when the batteries are exhausted. If this occurs, replace both batteries with new ones.

Note:

The JOG MODE button lights up each time the button is pressed regardless of the LIGHTING button setting.

DISPLAY


Light to indicate the audio channels being output.
Lights when a Dolby AC-3 compatible LD is being played.
Displays the track number or chapter number.
Lights in the program play mode.
Lights when the remaining play time is displayed.
SIDE A indicator
SIDE B indicator
SIDE A
AC-3 RF
RPT
PGM
TOTAL
SIDE B
1 / L
2 / R
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 →
Displays the frame number or elapsed play time.
Lights in the repeat play mode.
Lights when the TOTAL play time of the disc side being played is displayed.

Light to indicate the track or chapter numbers recorded in the disc. With some LDs (discs without TOC), only the chapter number being played lights up. "→" lights when the number is 16 or more.
In the program mode, the indicators of the programmed track/chapter numbers light.
In the random play mode, the indicator of the track or chapter being played lights.

: PLAY

: PAUASE

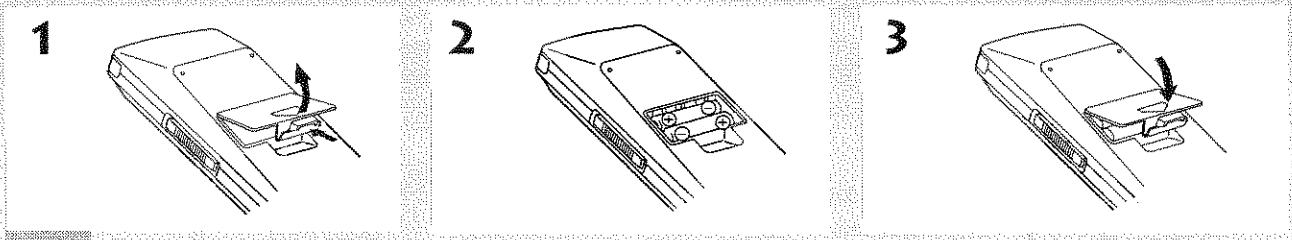
- The function names are displayed during operation.

OPEN	: Disc table is opening.	A-B	: A-B repeat playback
CLOSE	: Disc table is closing.	SIDE	: Single-side repeat playback
PLAY	: Start of playback	-OFF-	: Switching power off.
End	: End of LD	LD	: LaserDisc
Intro	: Intro Scan	CD	: Compact Disc with digital audio
HI-LITE	: Hilite Scan	CDV	: Compact Disc with Video
ALL	: All-side repeat playback	no DISC	: Disc is not present.

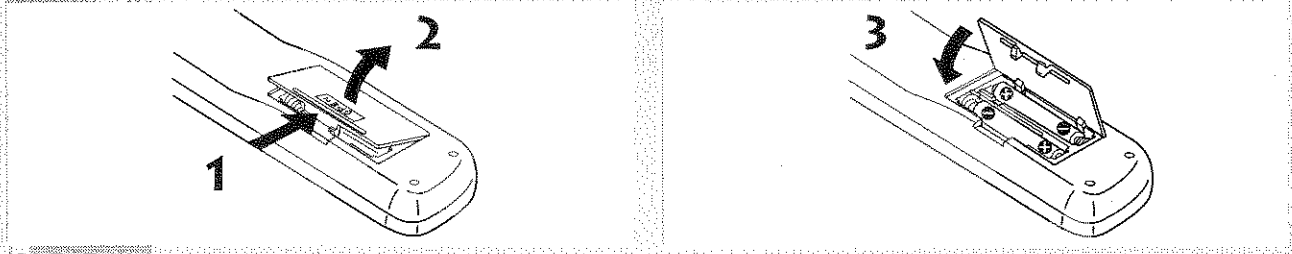
REMOTE CONTROL UNIT

LOADING THE BATTERIES

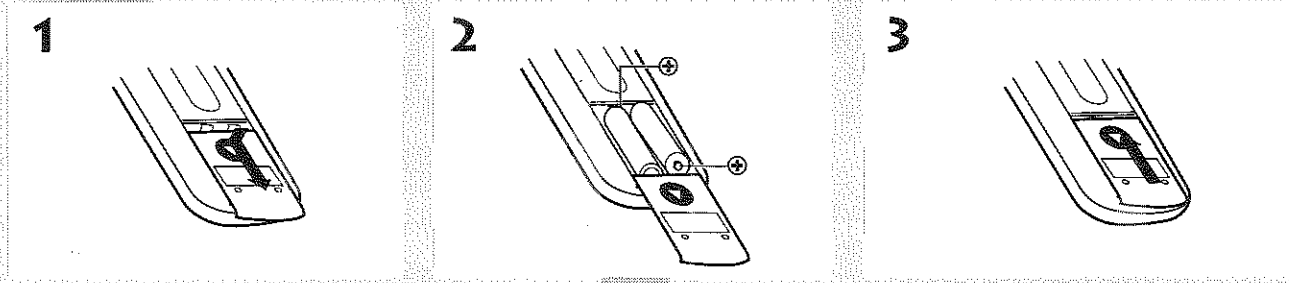
CLD-D790:



CLD-D590:



CLD-D390:

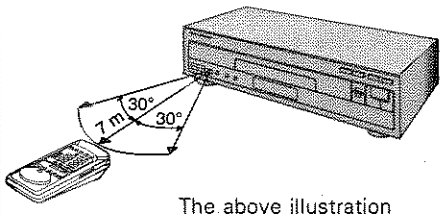


Notes:

If the batteries are inserted backwards, there is a danger of their leaking or bursting. Be especially careful of the following:

- Be sure that each battery's positive (+) and negative (–) terminals are positioned as indicated on the battery case.
- Do NOT replace just one of the batteries. When replacing, replace BOTH batteries.
- Batteries of the same size sometimes are not of the same voltage. Be sure the voltage of both batteries is the same.
- Some batteries are rechargeable and some are not. Do NOT mix the two types. Also heed to the precautions printed on the batteries.

HOW TO OPERATE



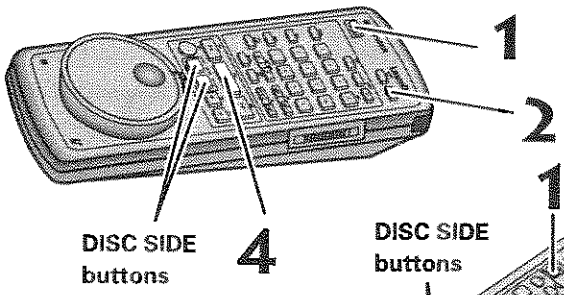
The above illustration shows CLD-D790.

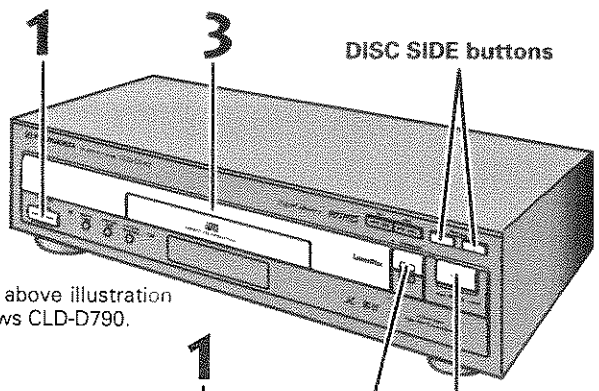
Operation of the Remote Control Unit

Point the remote control unit toward the remote-control sensor located on the front of the player. The remote control unit can be operated within a distance of 7 m from the player and up to 30 degrees from the sensor.

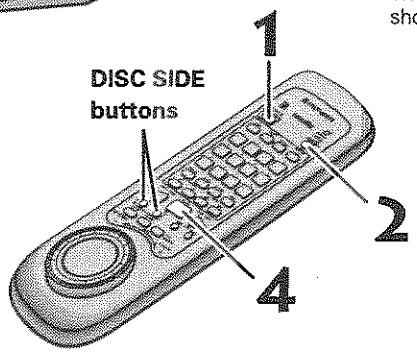
- The remote control unit may operate incorrectly if the remote-control sensor is hit by strong light, such as direct sunlight or a fluorescent lamp.
- If the CONTROL IN jack on the rear panel of this unit is connected to other equipment, point the remote control unit to the sensor of that equipment. This unit cannot be controlled directly with the remote control unit (see page 9) in such a case.
- Press the POWER switch on the front of the unit or on the remote control to turn the power ON before using the remote control unit.

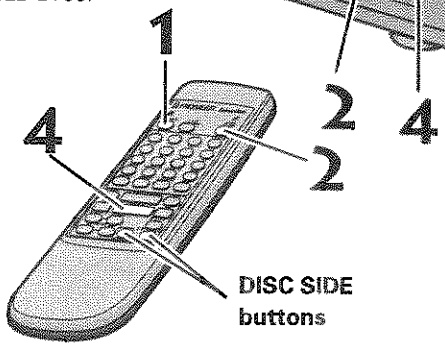
TO VIEW A LASERDISC



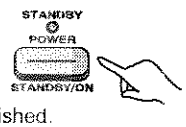


The above illustration shows CLD-D790.





1 Turn power ON.



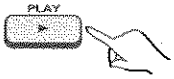
The STANDBY indicator is extinguished.

2 Open the LD disc table.

3 Load a disc.

Place a disc along the disc guide groove, with the label side facing up in case of a single-sided disc or with the side to be played facing up in case of a double-sided disc.

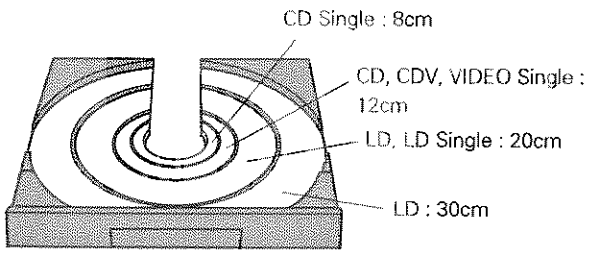
4 Start playback.



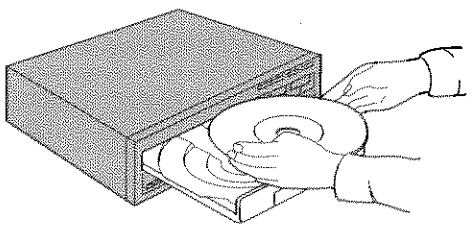
When playing side A of a two-sided LD, the player will automatically turn and play side B once side A has finished.

Caution in disc loading

Be careful not to let the disc deviate from the guide groove on the disc table or place two discs at a time, otherwise the disc damage or malfunction may result. Also do not place other object than a disc on the disc table.



LD disc table



Playback by designating side A or B

With a double-sided LD, side A in this description refers to the upper side when it is loaded on the disc table and side B refers to the down side. Remember that they do not refer to the disc sides A and B as recorded on the disc.

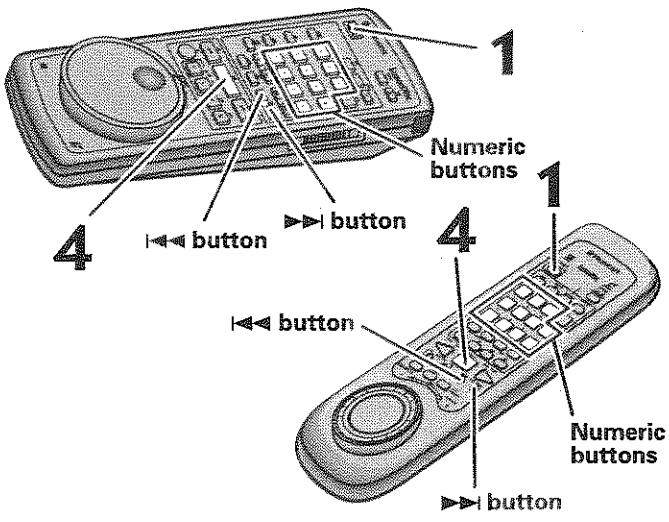
If the disc is placed with the label marked "SIDE A" facing upward and when it is required to play side A only, press the **DISC SIDE A button** without pressing the **PLAY ► button**; the playback stops after having played side A. When it is required to play side B only, press the **DISC SIDE B button** without pressing the **PLAY ► button**; the playback stops after having played only side B.

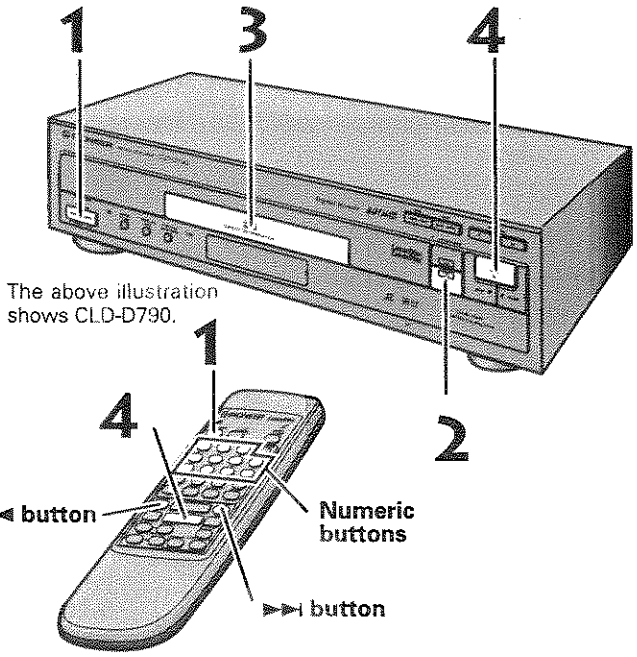
If the disc is placed with the label marked "SIDE B" facing up, pressing the **A button** plays disc side B and pressing the **B button** plays disc side A.

Display when the disc side changes

- During turning from side A to side B
- During turning from side B to side A

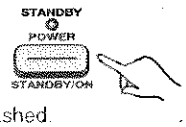
PLAYING BACK CDs





The above illustration shows CLD-D790.

1 Turn power ON.



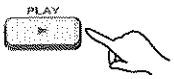
The STANDBY indicator is extinguished.

2 Open the CD disc table.

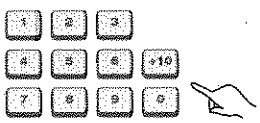
3 Load a disc.

Place a disc along the disc guide groove, with the label side facing up.

4 Start playback.

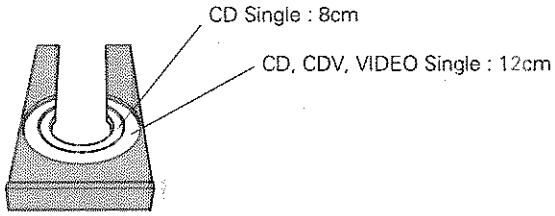


To select the desired track, select it by pressing the **►►| button** or **|◄◄ button** or by composing its number with **number buttons**.
Select music with the numeric buttons on the remote control unit.

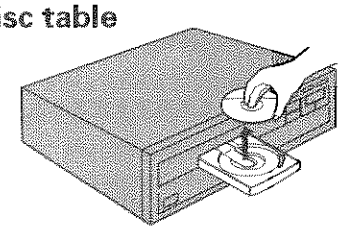


To select No. 10 or beyond:
Use te +10 and 0 buttons.
(Examples) 17: +10, 7
20: +10, +10, 0

- CDV playback starts with images (video part).



CD disc table



Useful Function — Auto power-ON

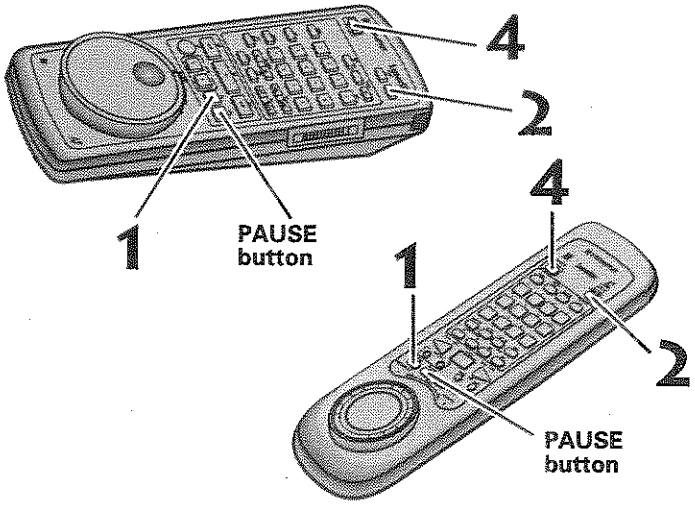
- When it is required to open the disc table while the power is off, you do not have to press the **POWER button** but just press the **OPEN/CLOSE ≜ button** on the front panel; the power will be turned ON automatically and the disc table will open.
- When the disc has been left loaded since the last time the power was turned OFF, simply pressing the **PLAY ► button** on the front panel turns power ON automatically and starts playback.

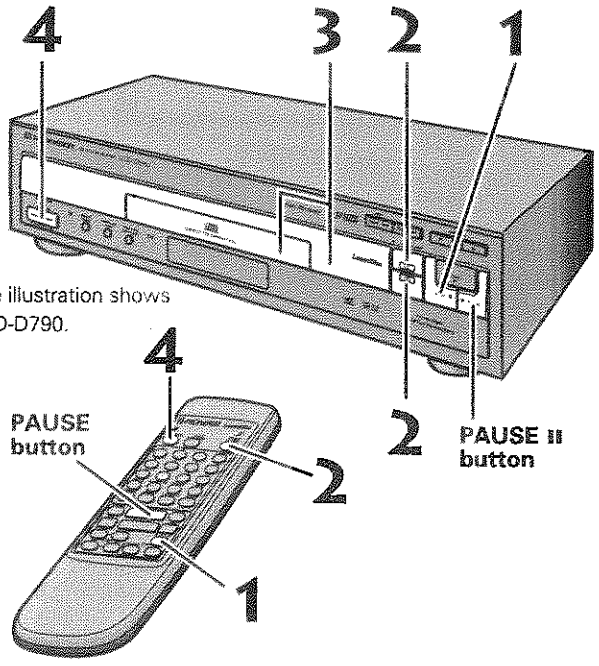
The above functions are not available with the remote control buttons.

Note

When the **OPEN/CLOSE button** is pressed after the CD has been taken out of the disc table or played, the CD disc table will open. To play an LD, press the **LD OPEN/CLOSE ≜ button** on the front panel.

AFTER FINISHING PLAYBACK

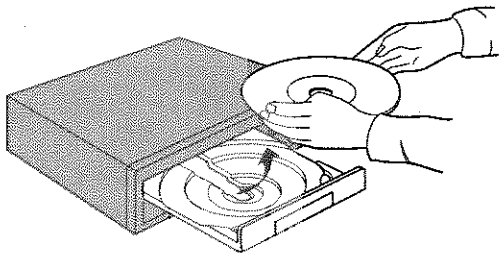




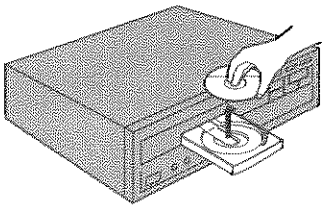
The illustration shows CLD-D790.

1 **Stop playback.**

2 **Open the disc table.**



3 **Take out the disc.**



4 **Turn power OFF.**

STANDBY
POWER
STANDBY/ON

The disc table closes, the power is turned OFF and the STANDBY indicator is lighted.

To let playback pause temporarily (II)

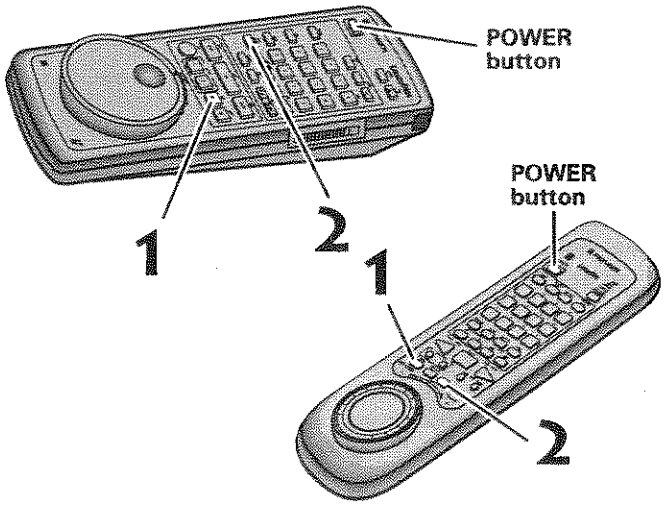
Press the **PAUSE II button**. The audio disappears and the II indicator lights on the display panel. Press the **PAUSE II button** again to resume playback from the same position.

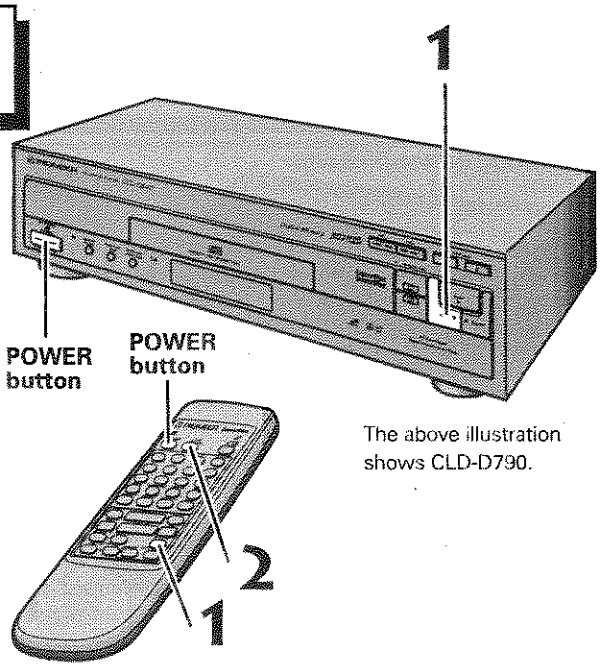
- CLD-D790: A still image is displayed during pause of a LD disc.
  CLD-D590/CLD-D390: A still image is displayed during pause of a CAV LD disc.
- Leaving the unit in the pause mode for a long period results in shortening the motor life. Therefore, with an LD, the pause mode is canceled automatically in 20 minutes after it has been started. (Pause timer)

Useful Function — Playback of LD from the position where it was last stopped

After the playback of an LD has been stopped in the middle, it can be restarted from the position where it was stopped. For details, please read "CONTINUE PLAY FUNCTION (LAST MEMORY)" on page 17.

CONTINUE PLAY FUNCTION (LAST MEMORY)



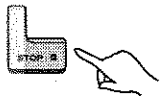


The above illustration shows CLD-D790.

Playing the continuation of LD which has been stopped in the middle

1 **After playing an LD till the middle, press the STOP ■ button to stop playback.**

The address where playback is stopped is stored in memory and held even after the power is turned OFF.



2 **When the power is OFF, turn power ON and press the LAST MEMORY button once.**

- Playback starts from slightly before the position where it was last stopped.

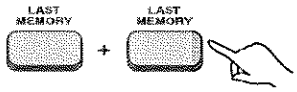
Playing the continuation after seeing the outline till the last stopped position

1 **After playing an LD till the middle, press the STOP ■ button to stop playback.**

The address where playback is stopped is stored in memory and held even after the power is turned OFF.

2 **When the power is OFF, turn power ON and press the LAST MEMORY button twice.**

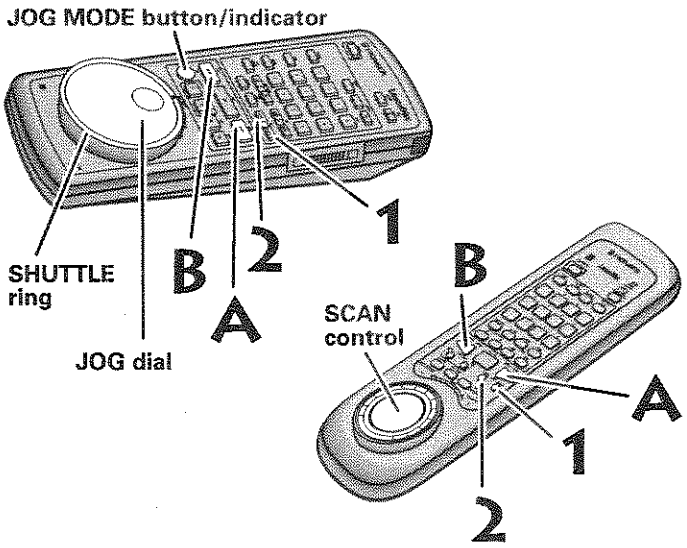
- The disc is played and fast forwarded alternately from the beginning a position slightly before the position where it was last stopped, and normal playback starts from there.

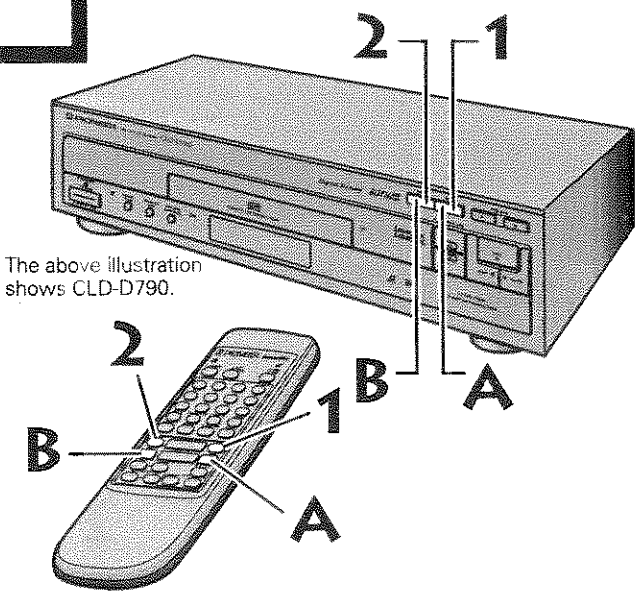


Notes:

- The Continue Play function is available only when playing an LD. It is not available in playback of CD or CDV.
- The disc should be left loaded in the unit. The Continue Play function cannot be used if the disc has been taken out of the unit.
- When a double-sided disc is stopped during playback of side B, the Continue Play function starts playback from side B.
- If the PLAY ► button is pressed after pressing a disc with the STOP ■ button, the disc will be played from the beginning.
- The power cord should be connected to a power outlet which is permanently supplied of power. (If it is connected to a power outlet of an amplifier, etc., the power supply may be interrupted depending on the component's condition.)

MOVING THE PLAY POSITION FORWARD (BACKWARD) (SKIP/SCAN)





The above illustration shows CLD-D790.

Skipping chapters/tracks

1 **To play the next chapter/track:**

The same number of chapters/tracks as the times the button is pressed can be skipped.

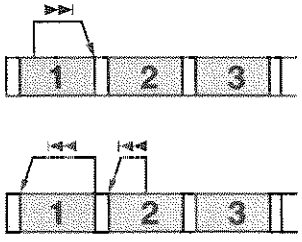
2 **To play the current track from the beginning:**

Pressing the button again skips back to the beginning of the previous chapter/track.

What is that Chapter?

The LD is separated into some numbered sections, which are called the chapters.
With CD, the similar sections are called the tracks. The skip operation is used to move to the next tune.

- On the main unit front panel, holding a skip button depressed initiates high-speed scan in the forward or reverse direction.



High speed scan-Search using Fast forward or Fast revese

A **To play a position located slightly after the current play position:**

Hold down the ►► **button** until you reach the section you desire, then release the button; normal playback starts from there; normal playback starts from there.

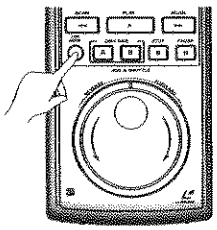
B **To play a position located slightly before the current play position:**

Hold down the ◄◄ **button** until you reach the section you desire, then release the button; normal playback starts from there; normal playback starts from there.

MOVING THE PLAY POSITION FORWARD (BACKWARD) (SKIP/SCAN)

■ Using the JOG dial (CLD-D790 only)

This function is convenient for advancing the picture frame-by-frame or searching a specific scene exactly.



During the play mode, press the JOG MODE button (so that the indicator lights up) and turn the JOG dial.

- If the dial is turned slightly during playback, a still frame image is displayed (or sound pauses in case of the audio part of CDV or a CD).
- Tuning the dial clockwise advances frames in the forward direction and turning it counterclockwise backs frames in the reverse direction.
- Turning the dial slowly changes frames one by one. Turning it for more than about 5 turns per second plays frames at the speed of normal playback (with both forward and reverse directions).

■ To return to normal playback

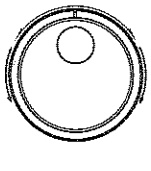
Press the **PLAY ► button**.

Set the JOG MODE button on the remote control unit to off when the JOG dial is not used:
The JOG MODE button turns off automatically in about 5 minutes after the JOG dial is last operated (the JOG MODE button indicator also goes off). However, to save the batteries in the remote control unit, it is recommended to press the JOG MODE button to off after completing the JOG dial operation.

■ Using the SHUTTLE ring (CLD-D790 only) or SCAN control (CLD-D590 only)

• Although the illustration shows the SHUTTLE ring, operation is the same with the SCAN control.

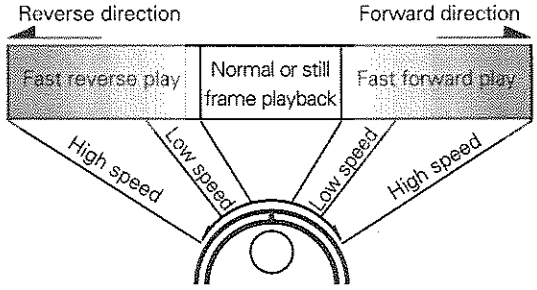
The fast forward or fast reverse playback can be selected freely by turning the **SHUTTLE ring** or **SCAN control**.



Turn the SHUTTLE ring or SCAN control.

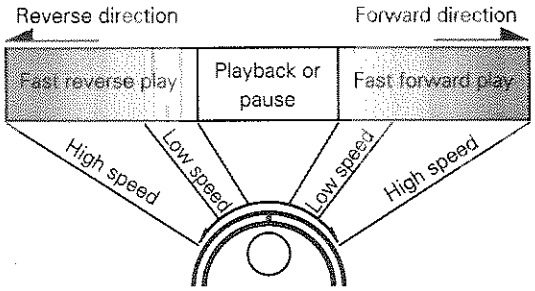
- Select the playback speed (refer to the diagram below). The **SHUTTLE ring** or **SCAN control** returns to the center position whenever it is released.

■ With LD or CDV



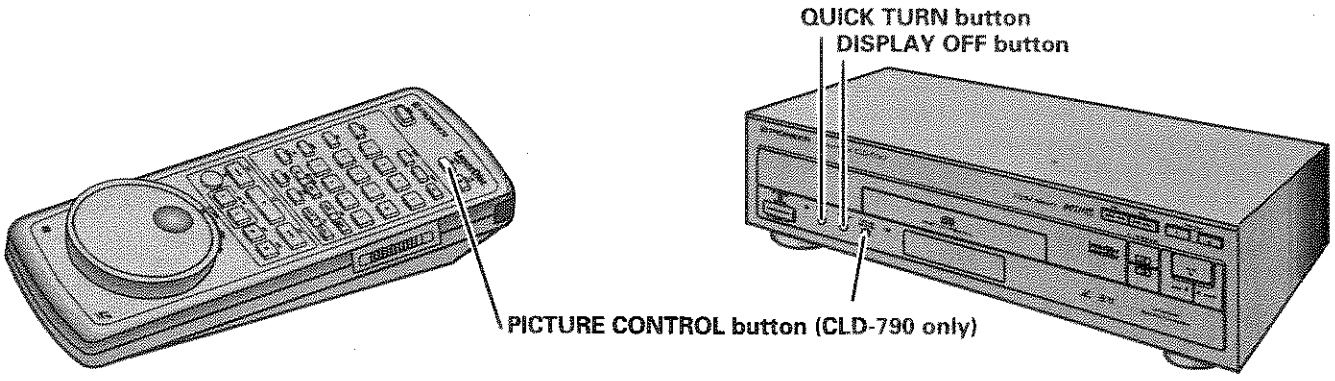
- If the **SHUTTLE ring** or **SCAN control** is operated during playback, normal playback resumes when it is returned to the center position.
  CLD-D790: If the **SHUTTLE ring** is operated during pause or still frame playback (page 31), a still frame is displayed again when it is returned to the center position.
  CLD-D590/CLD-D390: If the **SCAN control** is operated during pause or still frame playback (page 31), normal playback resumes when it is returned to the center position.

■ With CD or CDV



- If the **SHUTTLE ring** or **SCAN control** is operated during playback, normal playback resumes when it is returned to the center position.
  If the SHUTTLE ring or SCAN control is operated during pause, playback pauses again when it is returned to the center position.

MOVIE DISC ENTERTAINMENT

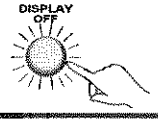


The above illustration shows CLD-D790.

The on-screen display can be turned off to prevent spoiling the atmosphere of movie.

TO TURN THE DISPLAY OFF

Press the DISPLAY OFF button.



- The display disappears from the display window as well as from the screen. However, whenever the player is operated with the front panel controls or remote control buttons, the activated operation mode will be displayed for about 1.5 second.
- While the display is off, the background of the screen changes from blue to black.

Note:

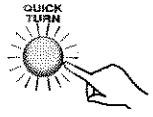
While the display is off, the display panel shows nothing even when the power is ON. As the display off condition is held in memory even after the power is turned OFF, the display panel shows nothing the next time the power is turned ON. To display information on the display panel, press the **DISPLAY OFF button** again.

The quick turn function allows to shorten the time required for starting playback or turning the disc side.

TO SHORTEN THE PLAY START AND DISC SIDE TURNING TIME (QUICK TURN) (LD)

Press the QUICK TURN button.

The indicator in the button lights to indicate that the quick turn function is on.



- Before starting random playback or viewing the disc contents, press the **QUICK TURN button** so that the indicator is extinguished. Press the **STOP button** to stop playback, then press the **PLAY ► button** (the TOC data is read at this time).
- While the indicator is lit, the play start and disc side turning time can be shorted because the TOC (Table Of Contents) data recorded on the disc is not read out.
  As a result, even when the LD contains the TOC data is played, the random playback, total time display, remaining time display and the elapsed time display of standard (CAV) disc are not possible.
- With QUICK TURN on, the screen is black during the turning process. With QUICK TURN off, the memory screen is displayed during the turning process (CLD-D790 only).

Notes:

- When the AC cord is plugged into a power outlet and the power of the player is switched on, the quick-turn is automatically turned on and the indicator lights.
- The indicator is extinguished automatically when a CD is played. As the quick turn on/off condition is held in memory, the indicator lights again the next time an LD is loaded.
- As the quick turn on/off condition is held in memory even after the power is turned OFF, the same setting is recalled the next time the power is turned ON.

MOVIE DISC ENTERTAINMENT

Even when an old movie is played from a disc including LD, this function makes it possible to make the picture shaper.

TO SELECT THE PICTURE QUALITY (PICTURE CONTROL (CLD-D790 ONLY))

Press the PICTURE CONTROL button.

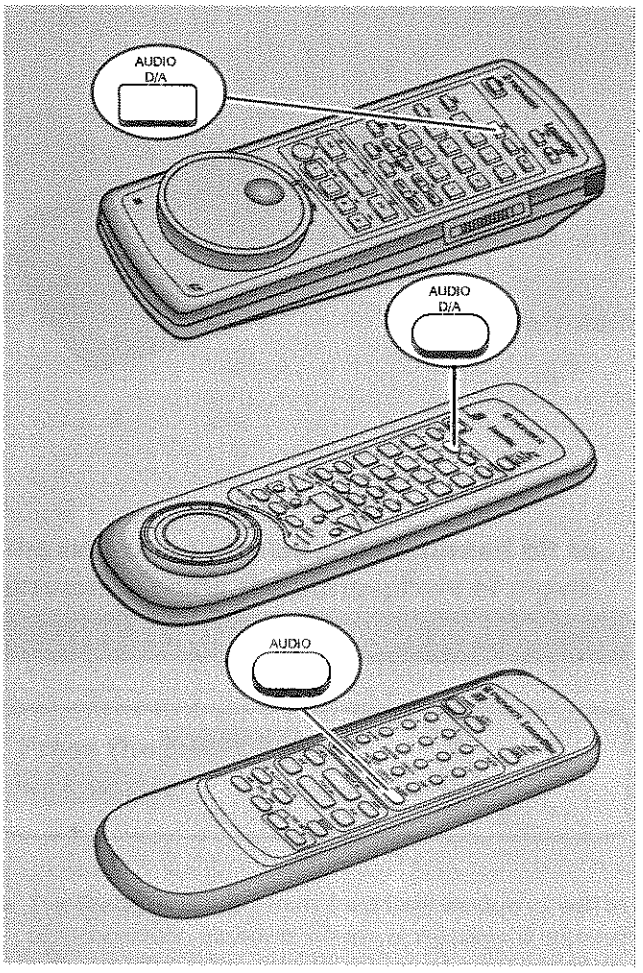
- Each time the button is pressed, the sharpness of picture quality will change in the following order:

Normal → Sharp 1 → Sharp 2 →

The sharpness of picture quality can be selected from among the following three settings.

Normal :Standard image
Sharp 1 :Sharpness control
Sharp 2 :An even sharper image than Sharp 1.

SWITCHING AUDIO



The reproduced audio is switched over every time the **AUDIO D/A button** is pressed during playback.
The available audio functions includes:

- Listening to the analog audio of a disc with digital audio.
- Listening to the desired language of a multiplexed bilingual disc.
- Listening to karaoke instrumental of a karaoke disc.

What is that LD with CX mark

The CX noise reduction system is applied to the analog audio of LD.
With LDs carrying the CX mark, CX allows to reproduced analog audio with less noise.
Some of the discs carrying the CX mark do not contain the recording of the codes for switching the CX system ON and OFF automatically. With such a disc, switch CX ON by pressing the **AUDIO D/A button** of the remote control unit.

- CX is a trademark of CBS. This player is in compliance with the CX extended specifications.

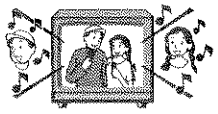
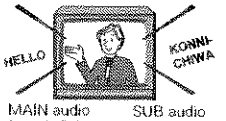
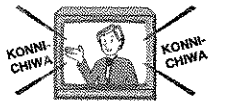
WITH CD OR CDV

Stereo audio → Left channel → Right channel

WITH LD WITH DIGITAL AUDIO

Switching between the digital and analog audio and between the left (L) and right (R) channels of stereo audio is possible.

Digital audio (stereo) → **Analog audio (stereo)** → **Analog audio L CH** → **Analog audio R CH** → **Digital audio L CH** → **Digital audio R CH** → **Digital audio (stereo)**

Audio	Stereo Disc	Bilingual Disc
Stereo	 Stereo	 MAIN audio from L CH / SUB audio from R CH
Left Channel	L CH audio from both L/R	MAIN audio from both L/R
Right Channel	R CH audio from both L/R	 SUB audio from both L/R

Notes

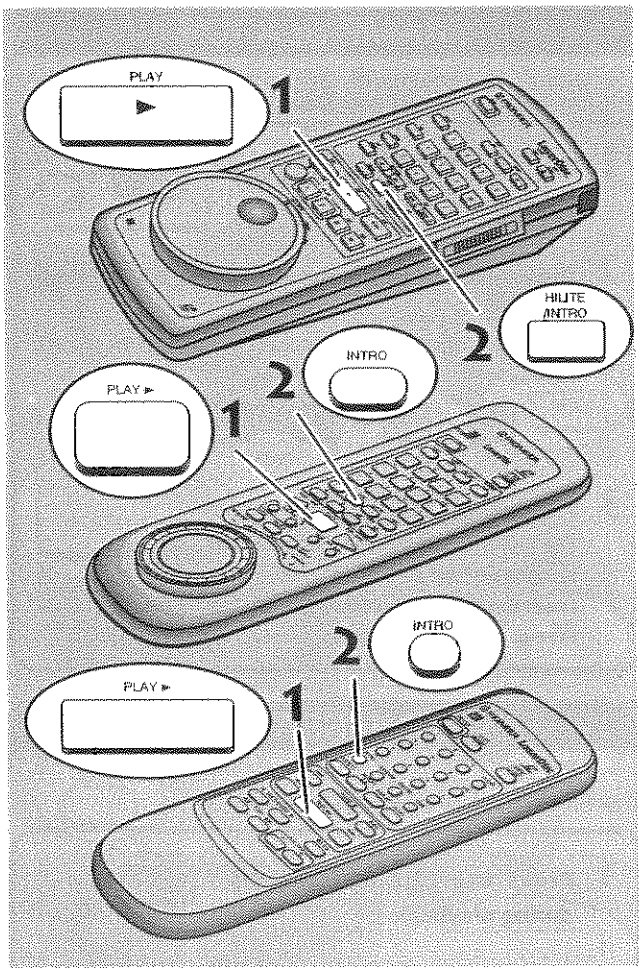
- With AC-3 discs, sound is not heard when the analog R channel is selected.
- With an LD with analog audio only, the audio is switched as shown below.
- Disc containing CX auto ON/OFF codes:

Stereo audio → Left channel → Right channel

- Disc without CX auto ON/OFF codes:

CX ON (Left channel) → CX ON (Right channel) → CX OFF (Left channel) → CX OFF (Right channel) → CX OFF (Stereo) → CX ON (Stereo)

SEARCHING FOR A PARTICULAR CHAPTER/TRACK (SCAN)



INTRO SCAN

This function plays the first 8 seconds of every chapter/track on an LD or the video part of CDV in sequence.

1 **Press the HILITE/INTRO or INTRO button.**

The beginning of every chapter/ track will be played for about 8 seconds each.

2 **When the desired chapter/track is played, press the PLAY ► button.**

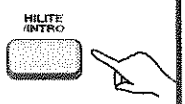
Normal playback starts from there.

- When Intro Scan has scanned the disc till the last chapter/ track, normal playback starts from the beginning of the disc.

HILITE SCAN

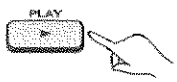
This function plays the 8 seconds at 1 minute after the start of every track in the audio part of CDV and CD.

1 **Press the HILITE/INTRO or INTRO button.**



The section located at 1 minute after the start of every track will be played for about 8 seconds each.

2 **When the desired chapter is played, press the PLAY ► button.**



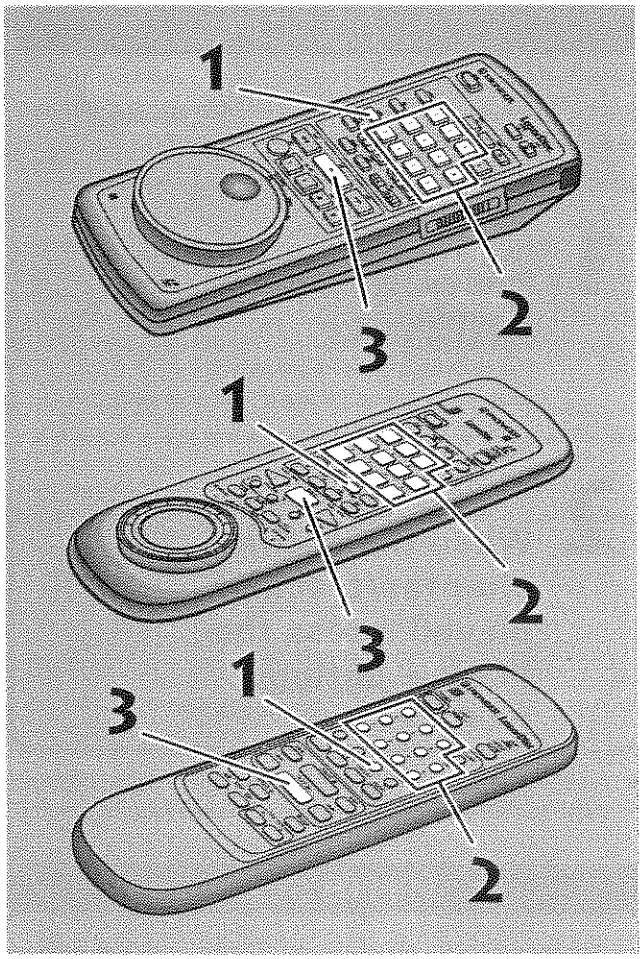
Normal playback starts from there.

- When Highlight Scan has scanned the disc till the last chapter/track, normal playback starts from the beginning of the disc.

Notes:

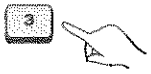
- With a CDV, Highlight Scan of the video part is performed first then that of the audio part occurs.
- Intro Scan is not possible with a disc which does not contain the recording of chapter numbers.
- With chapters/tracks of no more than 1 minute or with chapter/track numbers of 33 or more, Highlight Scan plays about 8 seconds from the beginning.
- Highlight scan does not play tracks shorter than one minute from CD.

SEARCHING FOR A PARTICULAR SCENE (SEARCH)



DIRECT SEARCH BASED ON CHAPTER/TRACK NUMBER

Example: To view an LD from the beginning of chapter 3



Use the +10 and 0 buttons to search a chapter/track No. 10 or more.

[Example] To search No. 17: +10 → 7

To search No. 30: +10 → +10 → +10 → 0

NORMAL SEARCH BASED ON CHAPTER NUMBER

This function is available with LDs.
It can be used during playback.

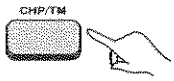
[Example] To search No. 17: CHP/TM → CHP/TM → 1 → 7 → PLAY

To search No. 30: CHP/TM → CHP/TM → 3 → 0 → PLAY

FRAME SEARCH

This function is available with **CAV LDs**.

1 **Press the CHP/TM button during playback.**



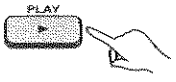
2 **Designate the frame number using the numeric buttons.**

[Example] When the frame number of the desired scene is 13542:

1 → 3 → 5 → 4 → 2

3 **Press the PLAY ► button.**

The player pauses at the picture of the designated frame number.
Press the **PLAY ► button** again to start normal playback from there.



TIME SEARCH

This function is available with **CLV LDs**.

1 **Press the CHP/TM button during playback.**

2 **Designate the time number using the numeric buttons.**

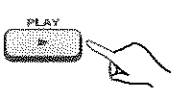
[Example] When the time number of the desired scene is 21 minutes 43 seconds:

2 → 1 → 4 → 3

With a disc which does not contain time information in seconds, specify the time in minutes (2 digits).

3 **Press the PLAY ► button.**

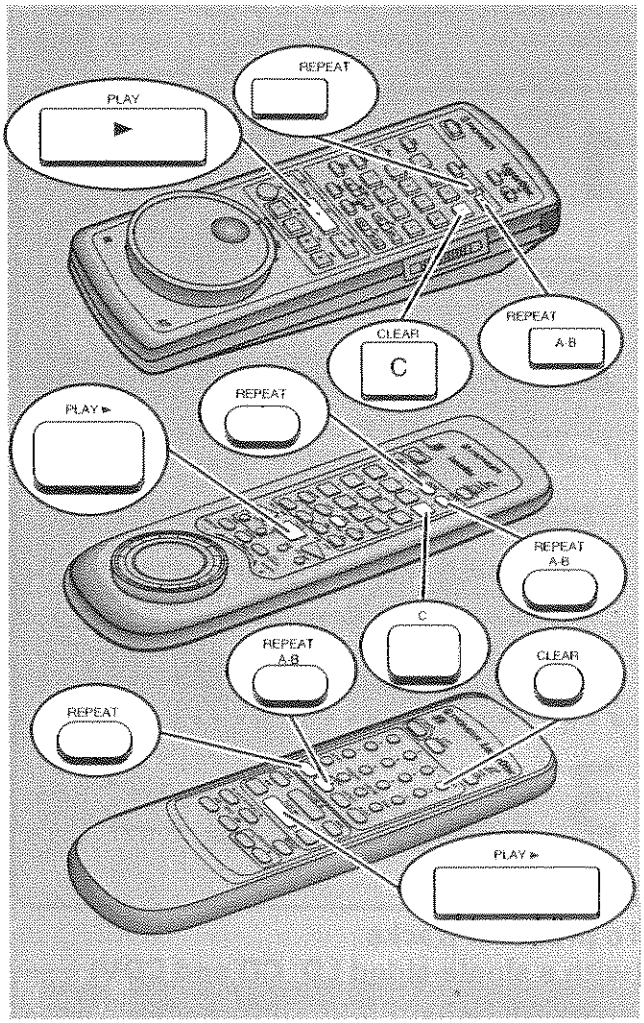
With CLD-D590 and CLD-D390, the player restarts at the picture of the designated time number.
With CLD-D790, the player pauses at the picture of the designated time number, and press the **PLAY ► button** again to start normal playback from there.



Note

If a frame or time number which is not recorded on the disc is designated, the player pauses at the end of the disc.

WATCHING/LISTENING REPEATEDLY (REPEAT PLAYBACK)



- Press the **CLEAR button** to cancel the position which has been designated.

To stop repeat playback

Press the **CLEAR button** or press the **REPEAT button** so that the RPT indicator is extinguished. The repeat mode is canceled but normal playback continues.

Useful Function — **Program repeat playback, random repeat playback**

During playback, press the **REPEAT button** once.
Similarly, during random playback, press the **REPEAT button** once.

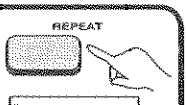
- Refer to page 28 for the random playback and page 26 for the program playback.

Note

Repeat playback of a chapter is not possible with an LD which does not contain chapter numbers. With such a disc, pressing the **REPEAT button** starts one-side repeat playback.

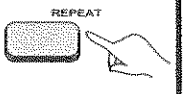
Repeat playback of track/chapter

Press the **REPEAT button** once during playback of the track or chapter to be repeated.



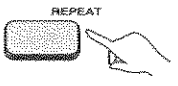
Repeat playback of one disc side

Press the **REPEAT button** twice.
When the disc side has been played till the end, the play position returns to the beginning and the disc side will be played repeatedly.



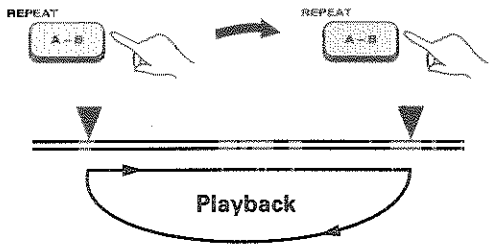
Repeat playback of two sides of disc

Press the **REPEAT button** 3 times.
The disc will be played repeatedly, from side A to side B then side B to side A and so on.



Repeat playback of a designated section

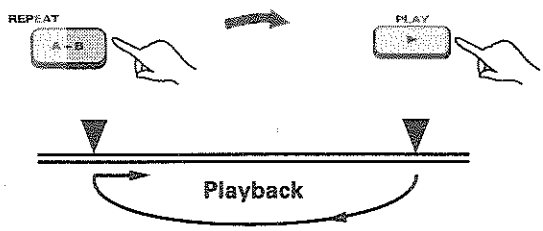
Press the **A-B REPEAT button** at the position you want to start repeating and at the position you want to end it.



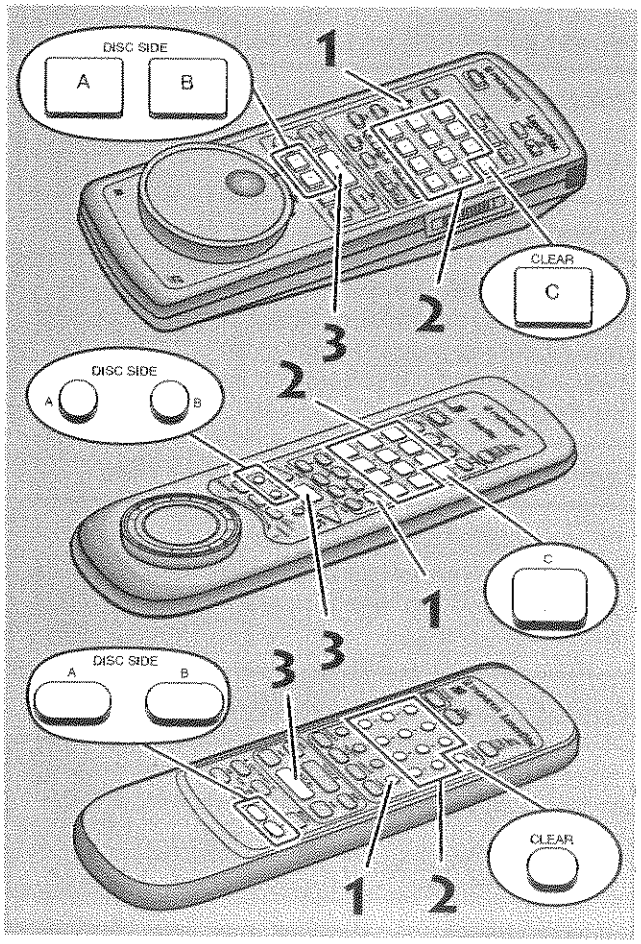
- With a CDV disc, repeat playback across the audio and video parts is not possible.
- Repeat play cannot span both sides of a two-sided LD.

Returning to the designated position

Press the **A-B REPEAT button** at the desired position.
When it is required to return to the position designated above, press the **PLAY ► button**.



PLAYING BACK IN DESIRED ORDER (PROGRAMED PLAYBACK)



- The player stops after having played the programmed tracks.
- If you made a mistake in pressing a numeric button, press the **CLEAR button** then press the correct **numeric button**.
- Program playback is not possible with a disc which does not contain chapter number.

To check the programmed tracks

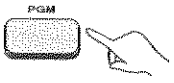
When the **PGM button** is pressed during or after program playback, the programmed contents are displayed on the screen. The program content display disappears when the **PGM button** is pressed again.

- If a chapter which does not recorded in the disc is programmed, program playback stops in the turn of the chapter.
- The picture from a non-programmed chapter may be seen during chapter change, but this is not a malfunction.

To program tracks (with a double-sided LD)

For example, let us program chapter No. 9 on side B, chapter No. 7 on side A and chapter No. 18 on side B.

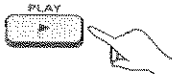
1 Press the **PGM button**.



2 Press the **DISC SIDE B button** then press the **numeric button** "9".

Chapter No. 9 on side B has been programmed.
Also program chapter No. 7 on side A and chapter No. 18 on side B with the same method.

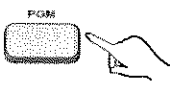
3 Press the **PLAY ►** button.



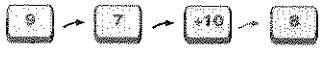
To program tracks (with a single-sided LD, CD and CDV)

For example, let us program track Nos. 9, 7 and 18 of CD in this order.

1 Press the **PGM button**.

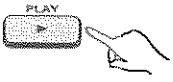


2 Press the **numeric buttons "9", "7", "+10" then "8"**.

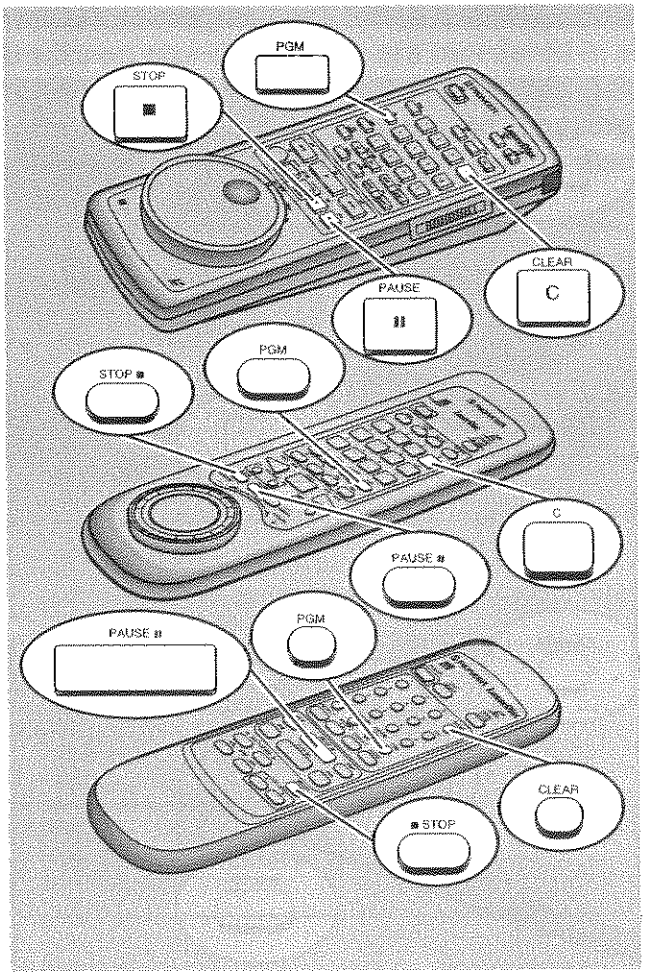


Now CD track Nos. 9, 7 and 18 have been programmed.

3 Press the **PLAY ►** button.

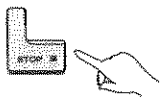


PLAYING BACK IN DESIRED ORDER (PROGRAMED PLAYBACK)



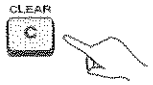
To stop program playback

Press the **STOP ■ button**.



To clear the entire program

- Open the disc table.
- Press the **CLEAR button** in stop mode.



To clear programmed chapters/tracks

1 Press the **PGM button**.

2 Press the **CLEAR button**.

Each press of the button clears the currently last chapter/track in the program.

- It is not possible to clear the chapter/track being played and the chapters/tracks located programmed them.

Useful Function — Programming of pause

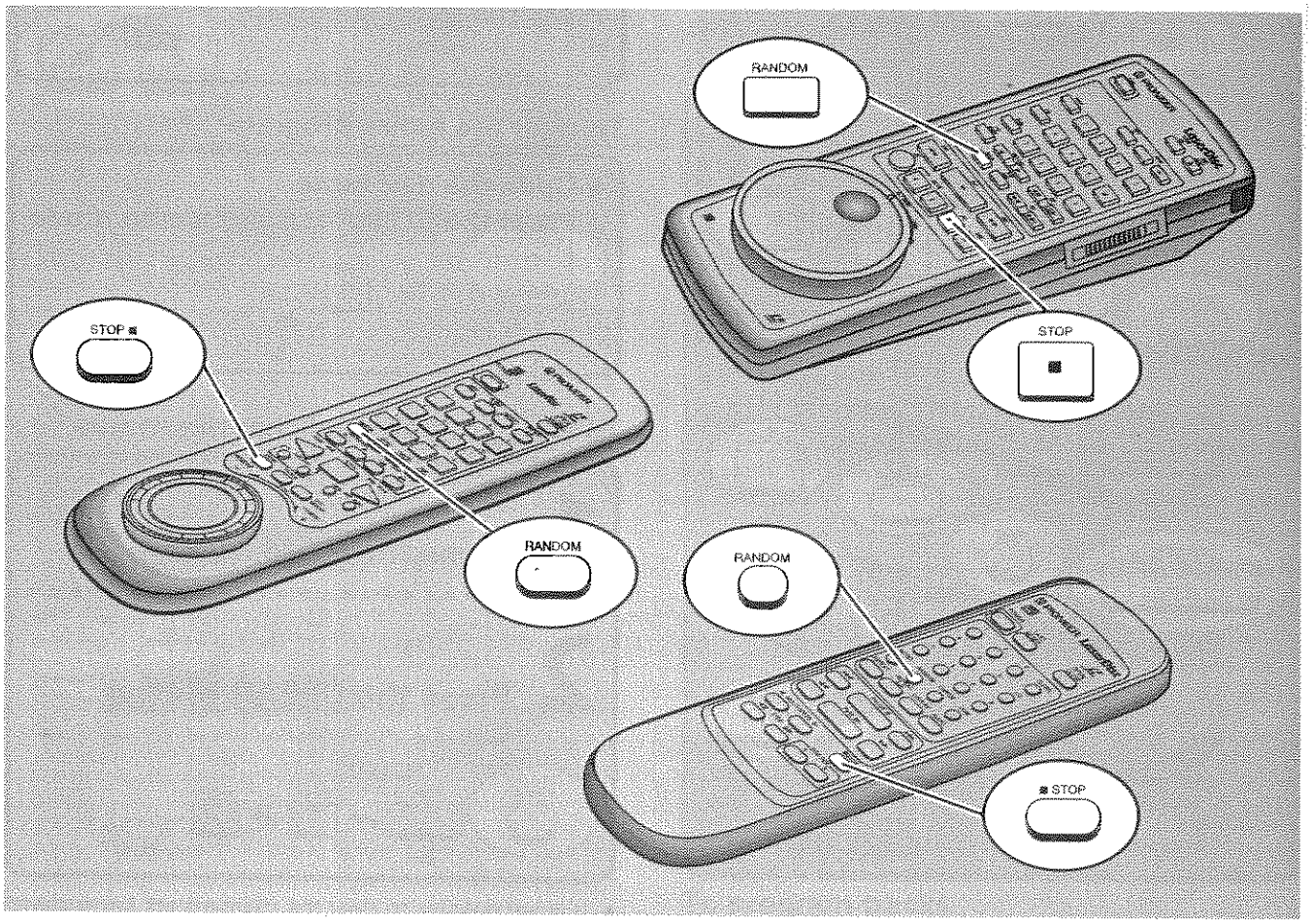
A pause can also be programmed by pressing the **PAUSE II button** in place of a numeric button.
The programming of pause is very convenient when recording the disc.

- When recording the disc on two sides of a tape, program a pause after the last track/chapter to be recorded on one side of tape; it will be possible to return the tape recording side in the pause mode to prevent erroneous recording.
- In the pause mode, it is also possible to record narration or leave a non-recorded blank (which is necessary for search operation, etc.). To restart recording, press the **PAUSE II button** in the pause mode to resume program playback.
- It is not possible to program a pause in the last step of programming.

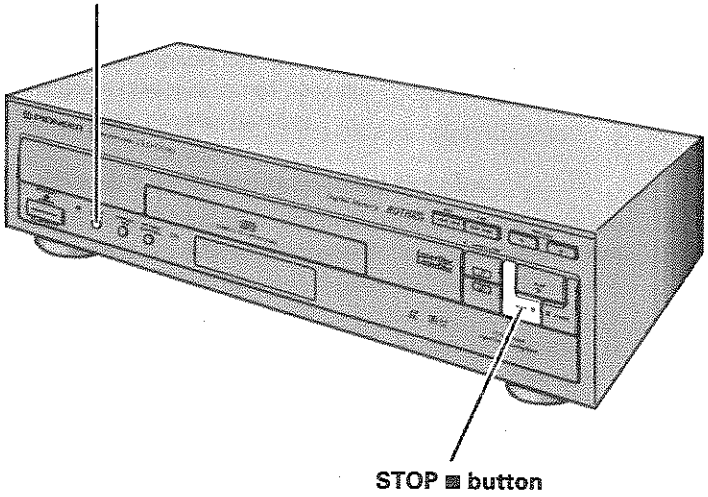
Display of programmed pause

The programmed pause is displayed with "PAUSE" on the screen and "II" on the display panel.

PLAYBACK IN ORDER SELECTED BY THE PLAYER (RANDOM PLAYBACK)



QUICK TURN button



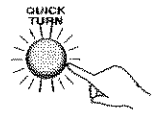
STOP ■ button

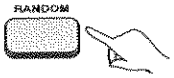
The above illustration shows CLD-D790.

PLAYBACK IN ORDER SELECTED BY THE PLAYER (RANDOM PLAYBACK)

With random playback, all of the chapters/tracks on one side of disc are reordered in a random order by this unit and played (LD with TOC data and CD). It stops after having played all of the chapter/tracks on the disc side.

Ensure that the **QUICK TURN button** indicator is not lit.
If it is lit, press the button to extinguish it then press the stop button (Turning off the QUICK TURN button during playback will not read the TOC data).





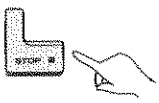
Press the **RANDOM button**.

- In case of a double-sided LD, only the side facing upward will be played in a random order.

(Goes out.)

To stop random playback

Press the **STOP ■ button**.



To play the side facing downward (side B) or an LD

First switch the quick turn function off, then press the **DISC SIDE B button** and press the **RANDOM button**.

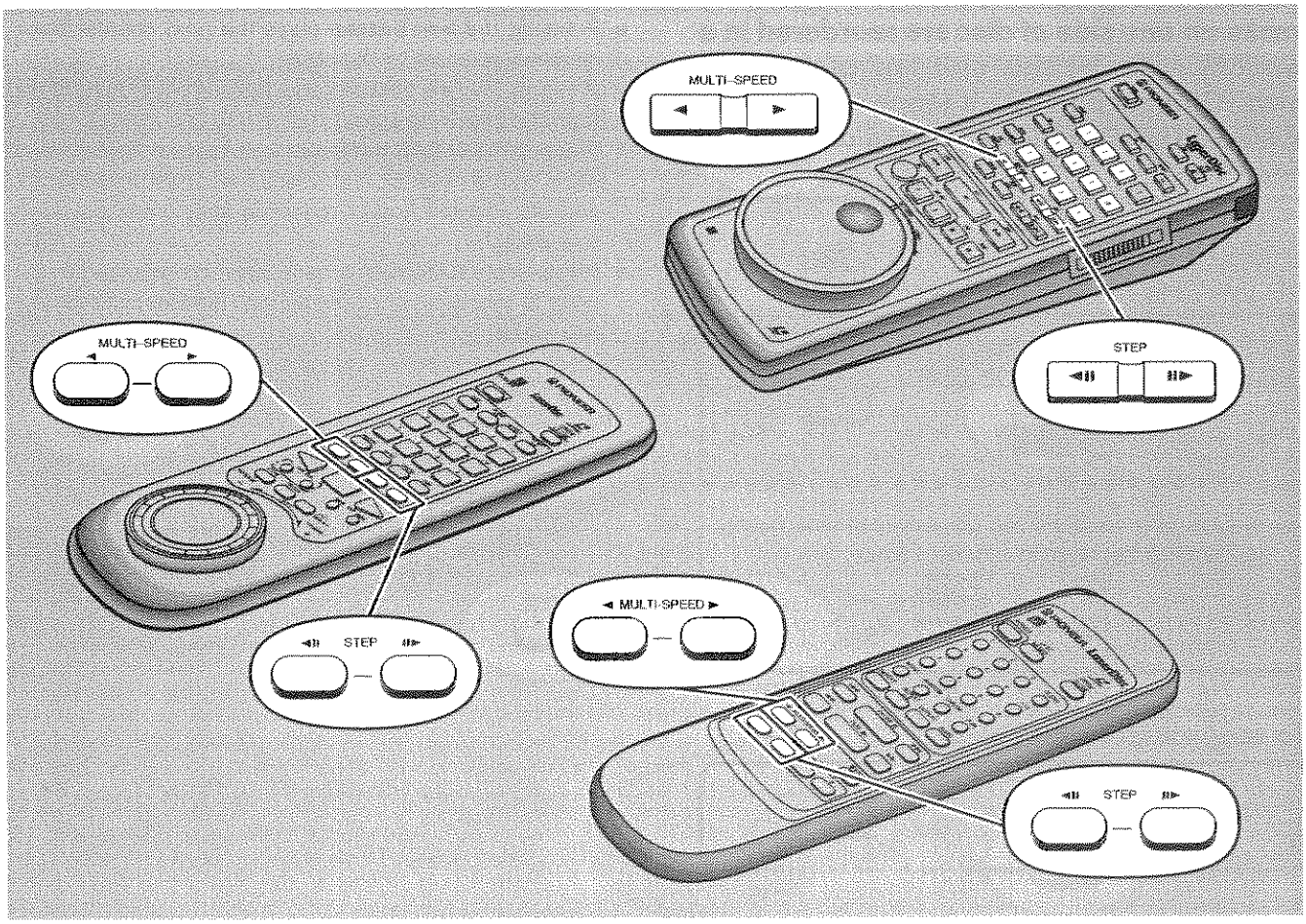
Notes:

- Random playback is not possible with an LD which does not contain chapter numbers.
- Random playback is not possible while the quick turn function is on.
- With an LD without TOC, random playback is not possible. For the TOC, refer to page 35.
- Random playback across the two sides (sides A and B) is not possible.
- With an LD, chapter No. 0 is not played in random playback.
- It is not possible to perform random playback of programmed chapters/tracks.

During random playback:

- Pressing the **▶▶| button** plays the next chapter/track randomly selected by the player.
- Pressing the **|◀◀ button** plays the current chapter/track from the beginning again.
- Pressing the **CLEAR button** cancels random playback and starts normal playback, with which the current chapter/track and the chapters/tracks recorded after it are played in sequence.
- Pressing the **RANDOM button** again cancels the current order of chapters/tracks and restarts random playback in a new order.

TRICK PLAYBACK (CLD-D790: CAV and CLV discs / CLD-D590/CLD-D390: CAV discs only)

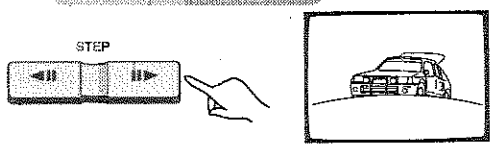


TRICK PLAYBACK (CLD-D790: CAV AND CLV DISCS / CLD-D590/CLD-D390: CAV DISCS ONLY)

STILL FRAME/FRAME-BY-FRAME ADVANCE

Still frame playback — Displaying a still image

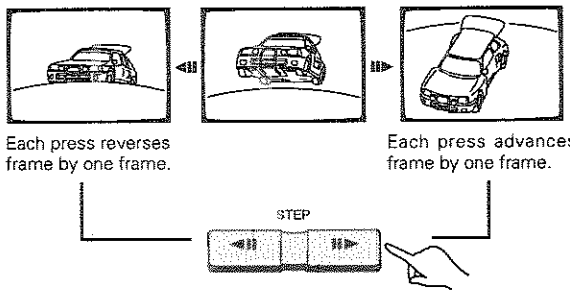
Press the **◄II or II► STEP button**.



- A still frame image can also be displayed by pressing the **PAUSE II button**.

Frame-by-frame advance — Playing video frame by frame

While a still frame is displayed, press the **◄II or II► STEP button**.

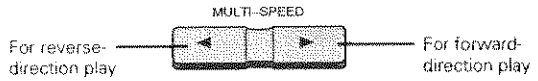


Hold the button depressed for continuous frame advance.

PLAYBACK AT VARIOUS SPEEDS (MULTI-SPEED PLAYBACK)

To vary the playback speed or direction

Press the **◄ or ► MULTI-SPEED buttons**.



Press during playback starts playback at a 1/8 speed. Each subsequent press varies the playback speed as shown below.

Speed Display	Speed
1/8	1/8 the normal speed
1/2	1/2 the normal speed
x 2	Twice the normal speed
1/2	1/2 the normal speed
1/8	1/8 the normal speed
1/30	1/30 the normal speed

To return to normal playback

Press the **PLAY ► button**.

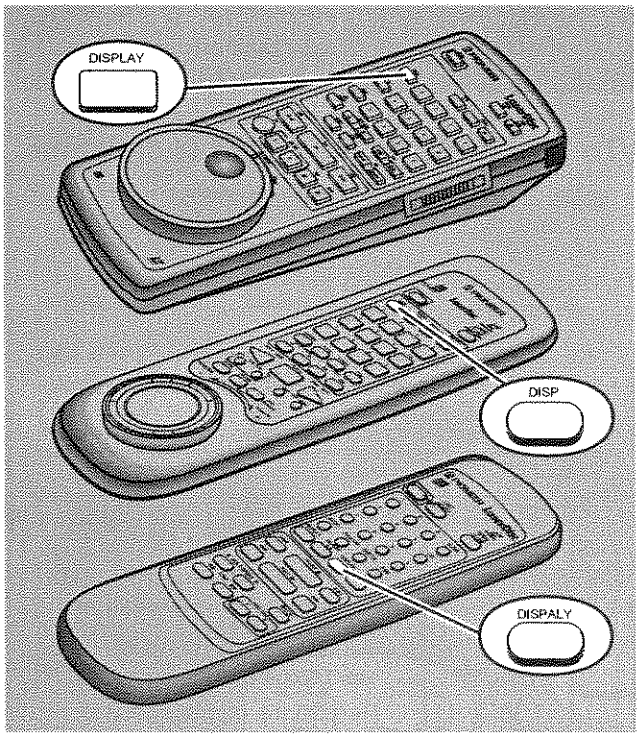
If still frame image is displayed automatically:

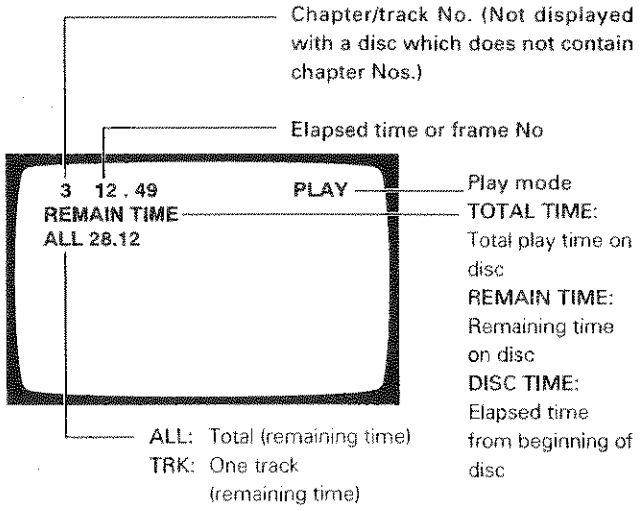
Some discs contain the recording of special signals called picture stop codes. To continue playback even when a picture containing a picture stop code is encountered, activate the picture stop cancellation (PSC) function by pressing and holding the **PLAY ► button** on the front panel for more than 2 seconds after having loaded the disc. "PSC ON" will be displayed on the screen for a few seconds. When the **PLAY ► button** is pressed and held for more than 2 seconds again, "PSC OFF" is displayed

Notes

- Sound cannot be heard during still frame or multi-speed playback.
- With CLV discs, Still Frame, Frame-by-Frame advance and Multi speed function cannot be carried out. If the **STEP buttons** or the **MULTI-SPEED buttons** the is pressed during playback of a CLV disc, warning massage "CLV" appears on the monitor screen for about 2 seconds. (CLD-D590/CLD-D390 only)

DISPLAY INFORMATION




Chapter/track No. (Not displayed with a disc which does not contain chapter Nos.)
Elapsed time or frame No
3 12 . 49
PLAY
REMAIN TIME
ALL 28.12
Play mode
TOTAL TIME: Total play time on disc
REMAIN TIME: Remaining time on disc
DISC TIME: Elapsed time from beginning of disc
ALL: Total (remaining time)
TRK: One track (remaining time)

Switch the quick turn function off (so that the indicator is extinguished), start playback, then press the DISPLAY button.
Each press changes the displayed information as shown below.

	With CDV or CD		LD with TOC (standard disc)		LD with TOC (long-play disc)
①	Elapsed play time from the beginning of current track till the position being played		Frame number being played		Elapsed play time from the beginning of disc
②	**REMAIN TIME TRK** Remaining time of the current track	*	**DISC TIME** Elapsed play time from the beginning of disc	*	**REMAIN TIME ALL** Remaining time from the position being played till the end of disc
③	**REMAIN TIME ALL** Total remaining time from the position being played till the end of disc	*	**REMAIN TIME ALL** Remaining time from the position being played till the end of disc	*	**TOTAL TIME** Total play time of disc from the beginning to the end.
④	**TOTAL TIME** Total play time of disc from the beginning to the end	*	**TOTAL TIME** Total play time of disc from the beginning to the end.		Screen display disappears.
	Screen display disappears.		Screen display disappears.		

With LD without TOC:
The frame number (in case of standard disc) or elapsed time from the beginning of disc (long-play disc) and the on-screen display are switched alternately.

- With a CDV, the total play time of the part being played (audio or video part) is displayed.

Notes:

- If the on-screen display has been left displayed for long hours (about 80 minutes) without performing any operation, it disappears automatically. It reappears when any button is pressed.
- Even with an LD with TOC, the data marked * are not displayed when the quick turn function is on. To view the data marked *, switch the quick turn function off, then stop playback temporarily and restart playback again.

TROUBLESHOOTING

Incorrect operations are often mistaken for malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components, such as the TV set and stereo system, as well as electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Common to LD and CD

	Symptom	Possible Causes	Reference Page
Operation	1. The disc comes out even when the disc table is closed.	• The disc is dirty. • The disc is not placed properly on the disc table. • Condensation has formed inside the player.	p. 36 p. 14, 15 p. 2
Remote control	2. Remote-control operation does not work. 3. TV set, etc. operates improperly.	• The CONTROL IN jacks on the rear panel are in use. • The remote control unit is too far from the player, or at too oblique an angle from the sensor. • The batteries are discharged. • Using the remote control unit may cause improper operation with some TV sets having the wireless remote-control function.	p. 9 p. 13 p. 13
Audio	4. Audio is distorted or not output.	• The plugs are not inserted securely into the jacks or are disconnected. • The plugs and jacks are dirty. • The player is in Pause mode. • The connection between the player and stereo amplifier is incorrect. • Operation of the stereo amplifier is incorrect. (Refer to the operating instructions of the amplifier.) • The audio output is connected to the PHONO IN jack of the amplifier.	 p. 9

LD

	Symptom	Possible Causes	Reference Page
Video, picture quality	5. No picture.	• The VHF antenna is not connected to the modulator (CLD-D590/CLD-D390 only). • A cable transmitting both VHF and UHF is connected to the modulator (CLD-D590/CLD-D390 only). • The power of the TV set is turned off.	p. 8
	6. No picture, the picture quality is poor, or signal noise is causing a poor picture. 7. Part of the still picture shakes.	• The disc is deformed (warped, etc.). • The plugs are not inserted securely into the jacks or are disconnected. • Even with standard discs, part of the still picture may shake if it is part of a fast-action scene.	p. 5
Audio (LD)	8. Audio sound is undulating. 9. Audio is not output. 10. Analog and digital will often differ in output sound volume.	• A disc without the CX mark is played while the CX system is ON. • No audio will be output during Multispeed, Still-Picture or Frame Playback. • Digital is often recorded with a higher audio volume than analog. This is not a malfunction.	p. 22 p. 30
Skip, search	11. Skip, programming and search operations do not function properly. 12. The search takes a long time (more than 40 seconds). 13. Starting takes more time with some discs.	• A disc without chapter numbers is being played. (The functions using chapters will not work with discs without chapter numbers.) • Some discs require more time for data to be read. • The system may read the data incorrectly. (This is not a malfunction.)	

TROUBLESHOOTING

CD

	Symptom	Possible Causes	Reference Page
Skip, search	14. A scene different from that specified is played back.	• The system may read the data incorrectly. (This is not a malfunction.)	
Operation (CD)	15. Playback stops immediately after starting.	• The disc is dirty. • The disc is upside-down. • The disc is improperly placed on the disc table.	p. 36 p. 14, 15 p. 14, 15

NOTE:

Abnormal functioning of this unit may be caused by static electricity or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.

Self-diagnostic function

This unit has a self-diagnostic function and displays the results.
If the system detects an abnormality during operation, the following display (service number) will appear automatically on the display of the player as well as the TV screen. If such a display appears, follow the "Remedy" below.

Display on the player

Service number —— U1

TV screen

Service number —— U1

Service Number	Condition of the player	Remedy
U1 U2	The disc is set incorrectly. If the disc is set correctly, then the disc may be dirty.	• Align the disc with the disc guide on the table. • Clean the disc with a soft cloth. • Open the disc table, then press the **PLAY (►) button** again.
P5 F2 L3 E3 E4 E9	Two discs may be loaded on the disc table. If only one disc is loaded, then the disc may be dirty. (The number displayed after P, F, L or E differs according to the condition of the player.)	• Load only one disc on the disc table. • Clean the disc with a soft cloth. • Open the disc table, then press the **PLAY (►) button** again. • If the same service number is displayed again, then the player may be in abnormal condition. When requesting service, please indicate the service number shown on the display of the player or the TV screen. (For example, if "E4" is displayed, indicate as "service number E4.")
H0 H1 H2	The player may be in abnormal condition.	• When requesting service, please indicate the service number shown on the display of the player or the TV screen. (For example, if "H1" is displayed, indicate as "service number H1.")

GLOSSARY

LD (LaserDisc)

Depending on the recording system of the signal, there are two types of LDs—standard play discs (CAV) and extended play discs (CLV).

CAV

"Standard Play Disc CAV" or "Standard Play" is indicated on the disc jacket or label.

CLV

"Extended Play Disc CLV" or "Extended Play" is indicated on the disc jacket or label.

LDs with digital audio

This type of LD contains a digital audio signal, as well as an analog audio signal. Both a high-quality picture and digital sound can be enjoyed at the same time.

Multiaudio disc with digital audio

Different content is recorded for digital audio and analog audio, respectively.

You can switch between digital audio and analog audio.

DOLBY SURROUND AC-3 DISC

This type of disc contains digital data of the 6-channel audio of the surround system for actual movie theaters (Surround Digital) which has been compressed with AC-3 and recorded in one of the conventional analog channels (R channel).

To enjoy the full audio potential of a Dolby Surround AC-3 disc, connect the AC-3 RF output terminal of this unit to the AC-3 RF input terminal of an amplifier or surround processor.

CDV (CD with video)

- This type of CD is provided with a video part. Of 25 minutes of CDV playback time, 20 minutes are used for recording digital audio, just as with normal CDs (audio part). The remaining 5 minutes are used for recording video and digital audio (video part).

LD GLOSSARY

Chapter number

Chapter numbers are used to indicate the boundaries of the sections on a disc, similar to the "chapters" in a book. If chapter numbers are recorded on a disc, they can be used to search for desired sections (Chapter Search).

- Some discs have no chapter number recorded.

Frame number

Frame numbers are the numbers assigned to each frame of a motion picture on a CAV standard play disc. Frame numbers can be used to search for desired scenes (Frame Search).

Time number

Time numbers indicate the time elapsed from the beginning of a CLV extended play disc or CAV standard play disc with a TOC*1. Time numbers can be used to search for desired scenes (Time Search).

CDV/CD GLOSSARY

Track number

Track numbers indicate the boundaries of the sections, or "tracks," on a disc. Track numbers are assigned consistently throughout the audio and video parts of a CDV disc. Track numbers can be used to search for desired tracks (Track Search).

TOC (*1)

Every CD/CDV disc is provided with a section called a TOC (Table Of Contents) at the beginning of the disc. The TOC section is just like the table of contents of a book, and contains information on the contents (number of tracks, playing time etc.) of the disc.

- Some LDs are not provided with a TOC section.
- LDs with a TOC and CDVs also belong to the "video disc system with optical digital audio."

CLEANING

For Proper and Long Use

● CLEANING THE PLAYER

Wipe the surface of the unit with a soft, dry cloth. To remove heavy dirt, soak a soft cloth in neutral detergent diluted five or six times with water, wring out the cloth well, and wipe off the dirt. After that, wipe the unit with a dry cloth. Do NOT use benzine, thinner or alcohol, as they will spoil the surface finish. If a chemical cloth is used, read the precautions supplied with the product.

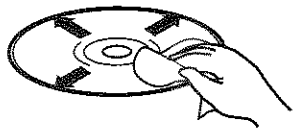
● LD/CD LENS CLEANERS

Usually the pickup lenses are not soiled. If a malfunction has occurred owing to dust or other causes during use, read the section explaining after-sales service and contact your dealer for repair. Some LD/CD lens cleaners available on the market may damage the lens.

● CLEANING THE DISCS

To obtain better picture and sound quality, wipe off any dirt from the disc surface with a soft cloth. Always wipe toward the outside of the disc. Do NOT wipe along the circumference as used to be done with conventional records.

- Do NOT use record cleaner, benzine, thinner, electrostatic protector or other similar chemicals.
- To remove heavy dirt, use the optional LD&CD Soft Cleaner Set (JV-D11).



Wipe toward the outside of the disc.

SPECIFICATIONS

General

System ..... LaserVision Disc system and Compact Disc digital audio system
Laser ..... Semiconductor laser: wavelength 780 nm
Power requirements: ..... AC 110-240 V, 50/60 Hz
Power consumption
CLD-D790 ..... 39 W
CLD-D590 ..... 38 W
CLD-D390 ..... 37 W
Weight
CLD-D790 ..... 6.7 kg
CLD-D590 ..... 6.6 kg
CLD-D390 ..... 6.6 kg
Dimensions ..... 420 (W) x 405 (D) x 132 (H) mm (Not including protruding cables, etc.)
Operating temperature ..... +5°C to +35°C
Operating humidity ..... 5% to 85% (no condensation)

Video Output (2 pairs)

Output level ..... 1 Vp-p (75Ω when loaded, synchronous negative)
Jacks ..... RCA jacks

S-Video Output level (2 pairs)

(CLD-D790/CLD-D590 only)

Y (luminance) - Output level ..... 1 Vp-p (75 Ω)
C (color) - Output level ..... 286 mVp-p (75 Ω)
Jacks ..... S-VIDEO jacks

Audio Output (2 pairs)

Output level
During analog audio output ..... 200 mVrms (1 kHz, 40%)
During digital audio output ..... 200 mVrms (1 kHz, –20 dB)
Number of channels 2
Jacks ..... RCA jacks

Digital audio characteristics
CLD-D790/CLD-D590:

Frequency response	4 Hz to 20 kHz
S/N ratio	115 dB (EIAJ)
Dynamic range	96 dB (EIAJ)
Total harmonic distortion	0.0035% (EIAJ)
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower (EIAJ)

CLD-D390:

Frequency response	4 Hz to 20 kHz
S/N ratio	102 dB (EIAJ)
Dynamic range	92 dB (EIAJ)
Total harmonic distortion	0.0055% (EIAJ)
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower (EIAJ)

Specifications for LDs conforming to EIAJ.

Other Terminals

CONTROL IN ..... Minijack (3.5ø)
CONTROL OUT ..... Minijack (3.5ø)
AC-3•RF OUTPUT ..... RCA jack
Optical digital output (CLD-D790 only) ..... Optical digital jack
VHF adapter
(CLD-D590/CLD-D390 only) ..... Both RCA jacks with DC jack

Accessories

Remote control unit 1
AAA/R03 dry cell batteries (CLD-D790/CLD-D590 only) 2
AA/R6P dry cell batteries (CLD-D390 only) 2
Audio cord 1
Video cord 1
Power cord 1
Operating Instructions 1
Warranty card 1

NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

规格

一般

系统 ..... 镭射视频碟片系统和CD数字式音频系统
镭射 ..... 半导体镭射：波长 780 nm
电源要求 ..... 交流电 110～240 V, 50／60 Hz
电力消耗
CLD-D790 ..... 39 W
CLD-D590 ..... 38 W
CLD-D390 ..... 37 W
重量
CLD-D790 ..... 6.7 kg
CLD-D590 ..... 6.6 kg
CLD-D390 ..... 6.6 kg
外型尺寸 ..... 420（宽）× 405（绅）× 132（高）mm
（不包括伸出缆线等）
工作温度 ..... ＋5℃ 到＋35℃
工作湿度 ..... 5% 到 85%（无结露）

视频输出（两对）

输出电平 ..... 1 Vp-p（75 Ω 有载时，同步负电平）
插孔 ..... RCA 插孔

S-视频输出电平（两对）

（只限于 CLD-D790／CLD-D590）
Y（光度）－输出电平 ..... 1 Vp-p（75 Ω）
C（色度）－输出电平 ..... 286 mVp-p（75 Ω）
插孔 ..... 视频插孔

音频输出（两对）

输出电平
模拟输出 ..... 200 mVrms（1 KHz, 40%）
数字输出 ..... 200 mVrms（1 KHz, –20 dB）
声道数 2
插孔 ..... RCA 插孔

数字音频特性
CLD-D790/CLD-D590：

频率响应	4 Hz ~20 kHz
信噪比	115 dB (EIAJ)
动态范围	96 dB (EIAJ)
毅调谐失真	0.0035% (EIAJ)
速度不均匀性	可测量限度内（± 0.001% 波峰值）或更低（EIAJ）

CLD-D390：

频率响应	4 Hz ~20 kHz
信噪比	102 dB (EIAJ)
动态范围	92 dB (EIAJ)
毅调谐失真	0.0055% (EIAJ)
速度不均匀性	可测量限度内（± 0.001% 波峰值）或更低（EIAJ）

LD 的规格于 EIAJ 一致。

其他端子

控制输入 ..... 微型插孔（孔径 3.5）
控制输出 ..... 微型插孔（孔径 3.5）
AC-3•RF 输出 ..... RCA 插孔
光学数字输出（只限于 CLD-D790）..... 光学数字插孔
VHF 转接器
（只限于 CLD-D590／CLD-D390）..... 两个 RCA 插孔及 DC 插孔

附件

遥控器 1
AAA／R03 干电池（只限于 CLD-D790／CLD-590）..... 2
AA／R6P 干电池（只限于 CLD-D390）..... 2
音频缆线 1
视频缆线 1
电源线 1
使用说明书 1
保证卡 1

注意：

因为改良等原因，机形和规格可能随时变化，恕不另行通知。

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